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Major and trace element composition of the depleted MORB mantle (DMM)

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2031	Lithospheric Mantle Evolution during Continental Break-Up: The West Iberia Non-Volcanic Passive Margin. 2005 , 46, 2527-2568		55
2030	Geochronology and Petrogenesis of the Cretaceous AntampombatoAmbatovy Complex and Associated Dyke Swarm, Madagascar. 2005 , 46, 1963-1996		65
2029	Geochemical constraints on mantle dynamics in the Hadean. <i>Earth and Planetary Science Letters</i> , 2005 , 238, 17-30	5.3	37
2028	Pb isotopic variability in melt inclusions from the EMIEMIIHIMU mantle end-members and the role of the oceanic lithosphere. <i>Earth and Planetary Science Letters</i> , 2005 , 240, 605-620	5.3	76
2027	Adiabat_1ph: A new public front-end to the MELTS, pMELTS, and pHMELTS models. 2005 , 6,		307
2026	Spatial and temporal distribution of a C-like asthenospheric component in the Rano Rahi Seamount Field, East Pacific Rise, 15°119°S. 2006, 7, n/a-n/a		18
2025	Melting a high 3He/4He source in a heterogeneous mantle. 2006 , 7, n/a-n/a		17
2024	Constraints on thermochemical convection of the mantle from plume heat flux, plume excess temperature, and upper mantle temperature. 2006 , 111,		156
2023	Volatile and trace elements in basaltic glasses from Samoa: Implications for water distribution in the mantle. <i>Earth and Planetary Science Letters</i> , 2006 , 241, 932-951	5.3	137
2022	Comparison of Th, Sr, Nd and Pb isotopes in oceanic basalts: Implications for mantle heterogeneity and magma genesis. <i>Earth and Planetary Science Letters</i> , 2006 , 245, 743-761	5.3	32
2021	Strontium isotopes in melt inclusions from Samoan basalts: Implications for heterogeneity in the Samoan plume. <i>Earth and Planetary Science Letters</i> , 2006 , 245, 260-277	5.3	111
2020	Elemental mixing systematics and SrNd isotope geochemistry of mlange formation: Obstacles to identification of fluid sources to arc volcanics. <i>Earth and Planetary Science Letters</i> , 2006 , 246, 288-304	5.3	68
2019	A new geochemical model for the Earth's mantle inferred from 146Smll42Nd systematics. <i>Earth and Planetary Science Letters</i> , 2006 , 250, 254-268	5.3	173
2018	Origin of high-Al N-MORB by fractional crystallization in the upper mantle beneath the Galpagos Spreading Center. <i>Earth and Planetary Science Letters</i> , 2006 , 252, 423-436	5.3	54

(2007-2006)

2017	A chemical Earth model with whole mantle convection: The importance of a corefinantle boundary layer (D?) and its early formation. 2006 , 226, 79-99	64
2016	A MORB source for low-Ti magmatism in the Semail ophiolite. 2006 , 234, 58-78	102
2015	A catalytic delamination-driven model for coupled genesis of Archaean crust and sub-continental lithospheric mantle. 2006 , 70, 1188-1214	538
2014	D'couverte des roches ^affinit 'ophiolitique dans la chaffe panafricaine au Cameroun : les talcschistes de Ngoung, Lamal Pougue et Bibodi Lamal. 2006 , 338, 1167-1175	25
2013	Geo-neutrinos: an approach to their uncertainties and correlations. 2006 , T127, 89-94	1
2012	Ultrahigh-pressure metamorphism and exhumation of garnet peridotite in Pohorje, Eastern Alps. 2006 , 24, 19-31	46
2011	WATER, MELTING, AND THE DEEP EARTH H2O CYCLE. 2006 , 34, 629-653	428
2010	Composition and chemical structure of oceanic mantle plumes. 2006 , 14, 452-476	13
2009	Partitioning of trace elements between carbonate-silicate melts and mantle minerals: Experiment and petrological consequences. 2006 , 14, 492-514	18
2008	Sub-solidus Oligocene zircon formation in garnet peridotite during fast decompression and fluid infiltration (Duria, Central Alps). 2006 , 88, 181-206	63
2007	Melt- versus fluid-induced metasomatism in spinel to garnet wedge peridotites (Ulten Zone, Eastern Italian Alps): clues from trace element and Li abundances. 2006 , 151, 372-394	108
2006	Mantle Pb paradoxes: the sulfide solution. 2006 , 152, 295-308	93
2005	The Aguablanca Ni(Cu) sulfide deposit, SW Spain: geologic and geochemical controls and the relationship with a midcrustal layered mafic complex. 2006 , 41, 737-769	35
2004	Talc indices from Boumnyebel (Central Cameroon), physico-chemical characteristics and geochemistry. 2006 , 45, 61-73	30
2003	Mantle sources and crustal input as recorded in high-Mg Deccan Traps basalts of Gujarat (India). 2006 , 89, 259-274	70
2002	Geochemistry of Picritic and Associated Basalt Flows of the Western Emeishan Flood Basalt Province, China. 2006 , 47, 1997-2019	237
2001	Origin of CFB Magmatism: Multi-tiered Intracrustal Picrite-Rhyolite Magmatic Plumbing at Spitzkoppe, Western Namibia, during Early Cretaceous Etendeka Magmatism. 2007 , 48, 1119-1154	39
2000	Properties of Rocks and Minerals (Seismic Properties of Rocks and Minerals, and Structure of the Earth. 2007 , 7-32	3

1999	Constraints on Seismic Models from Other Disciplines ©constraints from Mineral Physics on Seismological Models. 2007 , 775-803		3
1998	Maximum number of habitable planets at the time of Earth origin: new hints for panspermia and the mediocrity principle. 2007 , 6, 153-157		9
1997	Calc-Alkaline Magmatism at the Archean Proterozoic Transition: the Caic Complex Basement (NE Brazil). 2007 , 48, 2149-2185		96
1996	Partial Melting Experiments of Peridotite + CO2 at 3 GPa and Genesis of Alkalic Ocean Island Basalts. 2007 , 48, 2093-2124		404
1995	Do We Really Need Mantle Components to Define Mantle Composition?. 2007, 48, 693-709		42
1994	Nb/Ta and Zr/Hf in ocean island basalts Implications for crustImantle differentiation and the fate of Niobium. <i>Earth and Planetary Science Letters</i> , 2007 , 254, 158-172	5.3	263
1993	Constraints on mantle melting and composition and nature of slab components in volcanic arcs from volatiles (H2O, S, Cl, F) and trace elements in melt inclusions from the Kamchatka Arc. <i>Earth and Planetary Science Letters</i> , 2007 , 255, 53-69	5.3	234
1992	Possible density segregation of subducted oceanic lithosphere along a weak serpentinite layer and implications for compositional stratification of the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2007 , 255, 357-366	5.3	40
1991	TiO2 enrichment in ocean island basalts. Earth and Planetary Science Letters, 2007, 263, 388-403	5.3	179
1990	New Samoan lavas from Ofu Island reveal a hemispherically heterogeneous high 3He/4He mantle. <i>Earth and Planetary Science Letters</i> , 2007 , 264, 360-374	5.3	103
1989	Petrology and tectonics of Phanerozoic continent formation: From island arcs to accretion and continental arc magmatism. <i>Earth and Planetary Science Letters</i> , 2007 , 263, 370-387	5.3	213
1988	Correlation of seismic and petrologic thermometers suggests deep thermal anomalies beneath hotspots. <i>Earth and Planetary Science Letters</i> , 2007 , 264, 308-316	5.3	73
1987	Eclogitisation of gabbroic rocks: Redistribution of trace elements and Zr in rutile thermometry in an Eo-Alpine subduction zone (Eastern Alps). 2007 , 239, 96-123		91
1986	Olivine-hosted melt inclusions and melting processes beneath the FAMOUS zone (Mid-Atlantic Ridge). 2007 , 240, 129-150		38
1985	Complex proterozoic to paleozoic history of the upper mantle recorded in the Urals lherzolite massifs by ReDs and SmNd systematics. 2007 , 240, 61-84		21
1984	Drastic shift in lava geochemistry in the volcanic-front to rear-arc region of the Southern Kamchatkan subduction zone: Evidence for the transition from slab surface dehydration to sediment melting. 2007 , 71, 452-480		92
1983	Iron/manganese ratio and manganese content in shield lavas from KoBlau Volcano, Hawail 2007 , 71, 4557-4569		21
1982	Chemical composition of Earth's primitive mantle and its variance: 1. Method and results. 2007 , 112,		113

(2007-2007)

1981	geodynamics. 2007 , 112,	34
1980	Temperatures, Heat and Energy in the Mantle of the Earth. 2007 , 253-303	63
1979	Oxygen-isotope and trace element constraints on the origins of silica-rich melts in the subarc mantle. 2007 , 8, n/a-n/a	47
1978	Geochemistry of Primitive Lavas of the Central Kamchatka Depression: Magma Generation at the Edge of the Pacific Plate. 2007 , 199-239	27
1977	New insights into the genesis of Indian kimberlites from the Dharwar Craton via in situ Sr isotope analysis of groundmass perovskite. 2007 , 35, 1011	61
1976	Depleted mantle wedge and sediment fingerprint in unusual basalts from the Manihiki Plateau, central Pacific Ocean. 2007 , 35, 595	45
1975	Temperatures in ambient mantle and plumes: Constraints from basalts, picrites, and komatiites. 2007 , 8, n/a-n/a	469
1974	Evidence for serpentinite fluid in convergent margin systems: The example of El Salvador (Central America) arc lavas. 2007 , 8, n/a-n/a	52
1973	Along-strike trace element and isotopic variation in Aleutian Island arc basalt: Subduction melts sediments and dehydrates serpentine. 2007 , 112,	74
1972	Trace element constraints on mantle sources during mid-Proterozoic magmatism: evidence for a link between the Gardar (South Greenland) and Abitibi (Canadian Shield) mafic rocks. 2007 , 44, 459-478	9
1972 1971		9
1971	link between the Gardar (South Greenland) and Abitibi (Canadian Shield) mafic rocks. 2007 , 44, 459-478	
1971	link between the Gardar (South Greenland) and Abitibi (Canadian Shield) mafic rocks. 2007 , 44, 459-478 References and notes. 356-374	1
1971 1970 1969	link between the Gardar (South Greenland) and Abitibi (Canadian Shield) mafic rocks. 2007, 44, 459-478 References and notes. 356-374 Temperatures, Heat and Energy in the Mantle of the Earth. 2007, 253-303 Volatiles in basaltic magmas of ocean islands and their mantle sources: II. Estimation of contents in	1 68
1971 1970 1969	link between the Gardar (South Greenland) and Abitibi (Canadian Shield) mafic rocks. 2007, 44, 459-478 References and notes. 356-374 Temperatures, Heat and Energy in the Mantle of the Earth. 2007, 253-303 Volatiles in basaltic magmas of ocean islands and their mantle sources: II. Estimation of contents in mantle reservoirs. 2007, 45, 313-326	1 68 6
1971 1970 1969 1968	link between the Gardar (South Greenland) and Abitibi (Canadian Shield) mafic rocks. 2007, 44, 459-478 References and notes. 356-374 Temperatures, Heat and Energy in the Mantle of the Earth. 2007, 253-303 Volatiles in basaltic magmas of ocean islands and their mantle sources: II. Estimation of contents in mantle reservoirs. 2007, 45, 313-326 The circum-Mediterranean anorogenic Cenozoic igneous province. 2007, 81, 1-65 Silurian/Ordovician asymmetrical sill-like bodies from La Codosera syncline, W Spain: A case of tholeiitic partial melts emplaced in a single magma pulse and derived from a metasomatized	1 68 6 376
1971 1970 1969 1968	link between the Gardar (South Greenland) and Abitibi (Canadian Shield) mafic rocks. 2007, 44, 459-478 References and notes. 356-374 Temperatures, Heat and Energy in the Mantle of the Earth. 2007, 253-303 Volatiles in basaltic magmas of ocean islands and their mantle sources: II. Estimation of contents in mantle reservoirs. 2007, 45, 313-326 The circum-Mediterranean anorogenic Cenozoic igneous province. 2007, 81, 1-65 Silurian/Ordovician asymmetrical sill-like bodies from La Codosera syncline, W Spain: A case of tholeiitic partial melts emplaced in a single magma pulse and derived from a metasomatized mantle source. 2007, 96, 567-590 Evidence for multi-stage metasomatism of chlorite-amphibole peridotites (Ulten Zone, Italy):	68 6 376 25

1963	Two types of magma sources of rare-metal alkali granites. 2007 , 49, 442-466	14
1962	Geo-Neutrinos: A Systematic Approach to Uncertainties and Correlations. 2007 , 99, 111-130	16
1961	The role of slab melting in the petrogenesis of high-Mg andesites: evidence from Simbo Volcano, Solomon Islands. 2007 , 153, 85-103	46
1960	Intraplate volcanism in New Zealand: the role of fossil plume material and variable lithospheric properties. 2007 , 153, 669-687	61
1959	A modified iterative sandwich method for determination of near-solidus partial melt compositions. II. Application to determination of near-solidus melt compositions of carbonated peridotite. 2007 , 154, 647-661	71
1958	The effect of H2O on the olivine liquidus of basaltic melts: experiments and thermodynamic models. 2008 , 155, 417-432	164
1957	Multi-stage meltflock interaction in the Mt. Maggiore (Corsica, France) ophiolitic peridotites: microstructural and geochemical evidence. 2008 , 156, 453-475	95
1956	Nd, Pb, and Sr isotope composition of Late Mesozoic to Quaternary intra-plate magmatism in NE-Africa (Sudan, Egypt): high-弘ignatures from the mantle lithosphere. 2008 , 156, 765-784	39
1955	Volatile Abundances in Basaltic Magmas and Their Degassing Paths Tracked by Melt Inclusions. 2008 , 69, 363-402	207
1954	Composition of the Earth's interior: the importance of early events. 2008 , 366, 4077-103	59
1953	Early differentiation of the Earth and the Moon. 2008 , 366, 4105-28	27
1952	Ancient, highly heterogeneous mantle beneath Gakkel ridge, Arctic Ocean. 2008, 452, 311-6	236
1951	Origin of a 'Southern Hemisphere' geochemical signature in the Arctic upper mantle. 2008 , 453, 89-93	83
1950	Geochemical evidence for enhanced fluid flux due to overlapping subducting plates. 2008, 1, 380-384	240
1949	Highly unradiogenic lead isotope ratios from the Horoman peridotite in Japan. 2008, 1, 859-863	29
1948	Plate tectonics, flood basalts and the evolution of Earth⊠ oceans. 2008 , 20, 419-439	86
1947	A Sr, Nd, Hf, and Pb isotope perspective on the genesis and long-term evolution of alkaline magmas from Erebus volcano, Antarctica. 2008 , 177, 606-618	43
1946	Geochemical and petrological constraints on rear-arc magma genesis processes in Ecuador: The Puyo cones and Mera lavas volcanic formations. 2008 , 176, 107-118	36

(2008-2008)

1945	Petrogenesis of the earliest Early Cretaceous matic rocks from the Cona area of the eastern Tethyan Himalaya in south Tibet: Interaction between the incubating Kerguelen plume and the eastern Greater India lithosphere?. 2008 , 100, 147-173		106
1944	Zuni B andera volcanism, Rio Grande, USA [Melt formation in garnet- and spinel-facies mantle straddling the asthenosphere[]thosphere boundary. 2008 , 102, 295-315		34
1943	Petrogenesis of basalts and gabbros from an ancient continentBcean transition (External Liguride ophiolites, Northern Italy). 2008 , 101, 453-479		61
1942	Geochemistry of the mafic dykes in the Prakasam Alkaline Province of Eastern Ghats Belt, India: Implications for the genesis of continental rift-zone magmatism. 2008 , 104, 306-326		23
1941	Petrogenesis of high BaBr plutons from the Northern Highlands Terrane of the British Caledonian Province. 2008 , 105, 129-148		136
1940	Petrology and geochemistry of cross-chains in the Izu-Bonin back arc: Three mantle components with contributions of hydrous liquids from a deeply subducted slab. 2008 , 9, n/a-n/a		44
1939	238U-230Th-226Ra-210Pb-210Po, 232Th-228Ra, and 235U-231Pa constraints on the ages and petrogenesis of Vailulu'u and Malumalu Lavas, Samoa. 2008 , 9, n/a-n/a		47
1938	H2O subduction beyond arcs. 2008 , 9, n/a-n/a		298
1937	Microstructures in Hole 1274A peridotites, ODP Leg 209, Mid-Atlantic Ridge: Tracking the fate of melts percolating in peridotite as the lithosphere is intercepted. 2008 , 9, n/a-n/a		35
1936	Decoupled isotopic record of ridge and subduction zone processes in oceanic basalts by independent component analysis. 2008 , 9, n/a-n/a		42
1935	Globally elevated titanium, tantalum, and niobium (TITAN) in ocean island basalts with high 3He/4He. 2008 , 9, n/a-n/a		67
1934	Seismic array detection of subducted oceanic crust in the lower mantle. 2008 , 113,		41
1933	Carbonatite and silicate melt metasomatism of the mantle surrounding the Hawaiian plume: Evidence from volatiles, trace elements, and radiogenic isotopes in rejuvenated-stage lavas from Niihau, Hawaii. 2008 , 9, n/a-n/a		76
1932	Suya Taco and Sol de Mayo mafic complexes from eastern Sierras Pampeanas, Argentina: Evidence for the emplacement of primitive OIB-like magmas into deep crustal levels at a late stage of the Pampean orogeny. 2008 , 26, 172-187		19
1931	Geochemistry and geochronology of Neoarchaean volcanic rocks of the IrambaBekenke greenstone belt, central Tanzania. 2008 , 163, 265-278		19
1930	Where on Earth is the enriched Hadean reservoir?. <i>Earth and Planetary Science Letters</i> , 2008 , 266, 14-28 5.	.3	46
1929	Partitioning of U and Th during garnet pyroxenite partial melting: Constraints on the source of alkaline ocean island basalts. <i>Earth and Planetary Science Letters</i> , 2008 , 265, 270-286	.3	73
1928	Geochemistry of the highly depleted peridotites drilled at ODP Sites 1272 and 1274 (Fifteen-Twenty Fracture Zone, Mid-Atlantic Ridge): Implications for mantle dynamics beneath a 5. slow spreading ridge. Earth and Planetary Science Letters, 2008 , 267, 410-425	.3	142

1927	The evolution of He Isotopes in the convecting mantle and the preservation of high 3He/4He ratios. <i>Earth and Planetary Science Letters</i> , 2008 , 269, 175-185	5.3	53	
1926	Scale length of mantle heterogeneities: Constraints from helium diffusion. <i>Earth and Planetary Science Letters</i> , 2008 , 269, 508-517	5.3	34	
1925	Tungsten geochemistry and implications for understanding the Earth's interior. <i>Earth and Planetary Science Letters</i> , 2008 , 272, 656-665	5.3	105	
1924	A model for rutile saturation in silicate melts with applications to eclogite partial melting in subduction zones and mantle plumes. <i>Earth and Planetary Science Letters</i> , 2008 , 272, 720-729	5.3	54	
1923	Source depletion and extent of melting in the Tongan sub-arc mantle. <i>Earth and Planetary Science Letters</i> , 2008 , 273, 279-288	5.3	39	
1922	The effect of bulk composition and temperature on mantle seismic structure. <i>Earth and Planetary Science Letters</i> , 2008 , 275, 70-79	5.3	273	
1921	One hundred million years of mantle geochemical history suggest the retiring of mantle plumes is premature. <i>Earth and Planetary Science Letters</i> , 2008 , 275, 285-295	5.3	45	
1920	A multiple-system study of the geochemical evolution of the mantle with force-balanced plates and thermochemical effects. <i>Earth and Planetary Science Letters</i> , 2008 , 276, 1-13	5.3	77	
1919	Compositions of HIMU, EM1, and EM2 from global trends between radiogenic isotopes and major elements in ocean island basalts. <i>Earth and Planetary Science Letters</i> , 2008 , 276, 175-186	5.3	204	
1918	Isotopic and element exchange during serpentinization and metasomatism at the Atlantis Massif (MAR 30°N): Insights from B and Sr isotope data. 2008 , 72, 1801-1823		142	
1917	Lead isotope variability in olivine-hosted melt inclusions from Iceland. 2008, 72, 4159-4176		99	
1916	Simple models for dynamic melting in an upwelling heterogeneous mantle column: Analytical solutions. 2008 , 72, 3804-3821		24	
1915	238U- and 232Th-decay series constraints on the timescales of crystal fractionation to produce the phonolite erupted in 2004 near Tristan da Cunha, South Atlantic Ocean. 2008 , 72, 4367-4378		26	
1914	Carbon solubility in core melts in a shallow magma ocean environment and distribution of carbon between the Earth® core and the mantle. 2008 , 72, 4627-4641		100	
1913	Chemical and isotopic constraints on water/rock interactions at the Lost City hydrothermal field, 30°N Mid-Atlantic Ridge. 2008 , 72, 5457-5474		71	
1912	Geochemistry and magmatic history of eclogites and ultramafic rocks from the Chinese continental scientific drill hole: Subduction and ultrahigh-pressure metamorphism of lower crustal cumulates. 2008 , 247, 133-153		416	
1911	Behavior of highly-siderophile elements during magma degassing: A case study at the Kudryavy volcano. 2008 , 248, 318-341		63	
1910	Sr- and Nd-isotope geochemistry of the Atlantis Massif (30°N, MAR): Implications for fluid fluxes and lithospheric heterogeneity. 2008 , 254, 19-35		67	

(2009-2008)

1909	Geochemical and SrNd isotope signatures of pristine slab melts and their residues (Sierra del Convento mlange, eastern Cuba). 2008 , 255, 120-133	37
1908	A geochemical approach to NeogeneQuaternary volcanic activity of western Anatolia: An example of episodic bimodal volcanism within the Selendi Basin, Turkey. 2008 , 255, 265-282	67
1907	Primary melting sequence of a deep (>250 km) lithospheric mantle as recorded in the geochemistry of kimberlitedarbonatite assemblages, Snap Lake dyke system, Canada. 2008 , 255, 317-328	56
1906	Water in minerals of the continental lithospheric mantle and overlying lower crust: A comparative study of peridotite and granulite xenoliths from the North China Craton. 2008 , 256, 33-45	109
1905	Review Paper. Mineral evolution. 2008, 93, 1693-1720	384
1904	Urey ratio and the structure and evolution of Earth's mantle. 2008, 46,	225
1903	Magmatism associated with Gondwanaland rifting and Neo-Tethyan oceanic basin development: evidence from the Mamonia Complex, SW Cyprus. 2008 , 165, 699-709	19
1902	Collisional erosion and the non-chondritic composition of the terrestrial planets. 2008, 366, 4205-38	189
1901	Concurrent Mixing and Cooling of Melts under Iceland. 2008 , 49, 1931-1953	106
1900	Palaeozoic subduction-related and kimberlite or carbonatite metasomatism in the Scottish lithospheric mantle. 2008 , 293, 303-333	9
1899	Regulating continent growth and composition by chemical weathering. 2008 , 105, 4981-6	43
1898	Geochronology and Geochemistry of the Kuwei Mafic Intrusion, Southern Margin of the Altai Mountains, Northern Xinjiang, Northwest China: Evidence for Distant Effects of the Indo-Eurasia Collision. 2008 , 116, 119-133	4
1897	Variations of Chemical Compositions of Mid-ocean Ridge Basalts (MORB) and their Origin. 2008 , 117, 124-145	5
1896	Late Cenozoic xenoliths as a guide to the chemical isotopic composition and thermal state of the upper mantle under northeast Africa. 2008 , 20, 1079-1096	7
1895	10. Volatile Abundances in Basaltic Magmas and Their Degassing Paths Tracked by Melt Inclusions. 2008 , 363-402	41
1894	The oceanic crust of the Earth. 207-232	
1893	Effect of subduction components on production of basalts from Tateshina volcano, central Japan: geochemical calculation of dehydration of subducting oceanic crust and partial melting of overlying sediments, and subsequent fluid-mantle interaction. 2009 , 104, 132-147	
1892	Progressive Melt Extraction from Upwelling Mantle Constrained by the Kita-Matsuura Basalts in NW Kyushu, SW Japan. 2009 , 50, 725-779	22

1891	Pliocene tourmaline rhyolite dykes from Ikaria Island in the Aegean back-arc region: geodynamic implications. 2009 , 22, 189-199	6
1890	Origin of Nepheline-normative High-K Ankaramites and the Evolution of Eastern Srednogorie Arc in SE Europe. 2009 , 50, 1899-1933	20
1889	Petrogenesis of Lavas along the Solomon Island Arc, SW Pacific: Coupling of Compositional Variations and Subduction Zone Geometry. 2009 , 50, 781-811	44
1888	Geochemical Evolution of Intraplate Volcanism at Banks Peninsula, New Zealand: Interaction Between Asthenospheric and Lithospheric Melts. 2009 , 50, 989-1023	61
1887	Transition from Ultrapotassic Kamafugitic to Sub-alkaline Magmas: Sr, Nd, and Pb Isotope, Trace Element and 40ArB9Ar Age Data from the Middle Latin Valley Volcanic Field, Roman Magmatic Province, Central Italy. 2009 , 50, 1327-1357	57
1886	The High PII Stability of Hydroxyl-apatite in Natural and Simplified MORBIEN Experimental Study to 15 GPa with Implications for Transport and Storage of Phosphorus and Halogens in Subduction Zones. 2009 , 50, 2043-2062	53
1885	Geochemistry and 40Ar/39Ar geochronology of Miocene volcanic rocks from the Karaburun Peninsula: Implications for amphibole-bearing lithospheric mantle source, Western Anatolia. 2009 , 185, 181-202	47
1884	Serpentinised peridotites from an ultrahigh-pressure terrane in the Pohorje Mts. (Eastern Alps, Slovenia): Geochemical constraints on petrogenesis and tectonic setting. 2009 , 109, 209-222	33
1883	Metasomatic formation and petrology of blueschist-facies hybrid rocks from Syros (Greece): Implications for reactions at the slabhantle interface. 2009 , 107, 53-67	61
1882	The Lesvos maficultramafic complex, Greece: Ophiolite or incipient rift?. 2009 , 108, 243-261	39
1881	Mantle peridotites from the Dinaridic ophiolite belt and the Vardar zone western belt, central Balkan: A petrological comparison. 2009 , 108, 37-71	18
1880	Formation of heterogeneous magmatic series beneath North Santorini, South Aegean island arc. 2009 , 110, 20-36	38
1879	MORB mantle hosts the missing Eu (Sr, Nb, Ta and Ti) in the continental crust: New perspectives on crustal growth, crustthantle differentiation and chemical structure of oceanic upper mantle. 2009 , 112, 1-17	135
1878	Geochemical variations in a depleted fore-arc mantle: The Ordovician Thetford Mines Ophiolite. 2009 , 113, 21-47	52
1877	Kimberlites: Magmas or mixtures?. 2009 , 112, 191-200	56
1876	Formation and temporal evolution of the Kalahari sub-cratonic lithospheric mantle: Constraints from Venetia xenoliths, South Africa. 2009 , 112, 1069-1082	12
1875	Variable involvements of mantle plumes in the genesis of mid-Neoproterozoic basaltic rocks in South China: A review. 2009 , 15, 381-395	116
1874	Neoproterozoic tectonic evolution of the Hongseong area, southwestern Gyeonggi Massif, South Korea; implication for the tectonic evolution of Northeast Asia. 2009 , 16, 272-284	63

1873	Contribution of slab-fluid in arc magmas beneath the Japan arcs. 2009 , 16, 431-445		239
1872	Isotopic and trace element constraints on the petrogenesis of lavas from the Mount Adams volcanic field, Washington. 2009 , 157, 189-207		37
1871	Late Mesozoic magmatism from the Daye region, eastern China: UPb ages, petrogenesis, and geodynamic implications. 2009 , 157, 383-409		208
1870	Basaniteflephelinite suite from early Kilauea: carbonated melts of phlogopitefjarnet peridotite at Hawaii leading magmatic edge. 2009 , 158, 803-829		36
1869	Early Paleozoic subduction of the Paleo-Asian Ocean: Geochronological and geochemical evidence from the Dashizhai basalts, Inner Mongolia. 2009 , 52, 940-951		39
1868	Geochemistry of granitoids of Bilgi area, northern part of eastern Dharwar craton, southern India Example of transitional TTGs derived from depleted source. 2009 , 73, 854-870		17
1867	Preserving noble gases in a convecting mantle. 2009 , 459, 560-3		83
1866	Across-arc geochemical variation of Quaternary lavas in West Java, Indonesia: Mass-balance elucidation using arc basalt simulator model. 2009 , 18, 201-224		17
1865	Development of a heterogeneity in the lithosphere: Geochemical evidence. 2009 , 17, 90-100		
1864	Trace element ratios as indicators of source mixing and magma differentiation of alkali granitoids and basites of the Haldzan-Buregtey massif and the Haldzan-Buregtey rare-metal deposit, western Mongolia. 2009 , 17, 158-177		10
1863	Variations in the Nd isotopic ratios and canonical ratios of concentrations of incompatible elements as an indication of mixing sources of alkali granitoids and basites in the Khaldzan-Buregtei massif and the Khaldzan-Buregtei rare-metal deposit in western Mongolia. 2009 , 17, 227-252		12
1862	Canonical ratios of trace element in basic magmas of various geodynamic settings: Estimation from compositions of melt inclusions and rock glasses. 2009 , 426, 611-614		7
1861	New constraints on the HIMU mantle from neon and helium isotopic compositions of basalts from the CookAustral Islands. <i>Earth and Planetary Science Letters</i> , 2009 , 277, 253-261	5.3	64
1860	Estimates of the transition zone temperature in a mechanically mixed upper mantle. <i>Earth and Planetary Science Letters</i> , 2009 , 277, 244-252	5.3	30
1859	Synthetic tomography of plume clusters and thermochemical piles. <i>Earth and Planetary Science Letters</i> , 2009 , 278, 152-162	5.3	99
1858	Emergence of a low-viscosity channel in subduction zones through the coupling of mantle flow and thermodynamics. <i>Earth and Planetary Science Letters</i> , 2009 , 278, 243-256	5.3	259
1857	Osmium isotopes in Baffin Island and West Greenland picrites: Implications for the 187Os/188Os composition of the convecting mantle and the nature of high 3He/4He mantle. <i>Earth and Planetary Science Letters</i> , 2009 , 278, 267-277	5.3	50
1856	Constraints on the depths and temperatures of basaltic magma generation on Earth and other terrestrial planets using new thermobarometers for mafic magmas. <i>Earth and Planetary Science Letters</i> , 2009 , 279, 20-33	5.3	467

1855	The K/U ratio of the silicate Earth: Insights into mantle composition, structure and thermal evolution. <i>Earth and Planetary Science Letters</i> , 2009 , 278, 361-369	5.3	156
1854	Geochemistry of a long in-situ section of intrusive slow-spread oceanic lithosphere: Results from IODP Site U1309 (Atlantis Massif, 30°N Mid-Atlantic-Ridge). <i>Earth and Planetary Science Letters</i> , 2009 , 279, 110-122	5.3	106
1853	Short-lived radionuclides as monitors of early crustfinantle differentiation on the terrestrial planets. <i>Earth and Planetary Science Letters</i> , 2009 , 279, 147-156	5.3	17
1852	The origin of high-MgO diamond eclogites from the Jericho Kimberlite, Canada. <i>Earth and Planetary Science Letters</i> , 2009 , 284, 527-537	5.3	66
1851	Ultra-depleted melts from Kamchatkan ophiolites: Evidence for the interaction of the Hawaiian plume with an oceanic spreading center in the Cretaceous?. <i>Earth and Planetary Science Letters</i> , 2009 , 287, 194-204	5.3	17
1850	Trace element partitioning between garnet lherzolite and carbonatite at 6.6 and 8.6 GPa with applications to the geochemistry of the mantle and of mantle-derived melts. 2009 , 262, 57-77		184
1849	The H/C ratios of Earth's near-surface and deep reservoirs, and consequences for deep Earth volatile cycles. 2009 , 262, 4-16		139
1848	Geochemical and petrographic evidence for magmatic impregnation in the oceanic lithosphere at Atlantis Massif, Mid-Atlantic Ridge (IODP Hole U1309D, 30°N). 2009 , 264, 71-88		104
1847	Reappraisal of fluid and sediment contributions to Lesser Antilles magmas. 2009 , 265, 272-278		26
1846	Reconsidering the origins of isotopic variations in Ocean Island Basalts: Insights from fine-scale study of SB Jorge Island, Azores archipelago. 2009 , 265, 289-302		35
1845	Migration and accumulation of ultra-depleted subduction-related melts in the Massif du Sud ophiolite (New Caledonia). 2009 , 266, 171-186		75
1844	Two contrasting magmatic types coexist after the cessation of back-arc spreading. 2009 , 266, 274-296		102
1843	Fluid source-based modeling of melt initiation within the subduction zone mantle wedge: Implications for geochemical trends in arc lavas. 2009 , 266, 297-310		11
1842	The importance of melt extraction for tracing mantle heterogeneity. 2009 , 73, 218-238		164
1841	The geochemistry of the volatile trace elements As, Cd, Ga, In and Sn in the Earth mantle: New evidence from in situ analyses of mantle xenoliths. 2009 , 73, 1755-1778		56
1840	Evidence for recycled plate material in Pacific upper mantle unrelated to plumes. 2009 , 73, 3028-3037		49
1839	Primitive off-rift basalts from Iceland and Jan Mayen: Os-isotopic evidence for a mantle source containing enriched subcontinental lithosphere. 2009 , 73, 3423-3449		40
1838	In situ UPb, O and Hf isotopic compositions of zircon and olivine from Eoarchaean rocks, West Greenland: New insights to making old crust. 2009 , 73, 4489-4516		136

(2009-2009)

1837	Chemical and chronologic complexity in the convecting upper mantle: Evidence from the Taitao ophiolite, southern Chile. 2009 , 73, 5793-5819	44
1836	A method to estimate the composition of the bulk silicate Earth in the presence of a hidden geochemical reservoir. 2009 , 73, 6952-6964	17
1835	Geochemistry, petrogenesis and tectonic setting of the Samothraki mafic suite, NE Greece: Trace-element, isotopic and zircon age constraints. 2009 , 473, 53-68	33
1834	Metamorphic garnet pyroxenite from the 540B00 m main borehole of the Chinese Continental Scientific Drilling (CCSD) project. 2009 , 475, 396-412	7
1833	Melting in the deep upper mantle oceanward of the Honshu slab. 2009 , 175, 137-144	30
1832	Dehydration melting of nominally anhydrous mantle: The primacy of partitioning. 2009 , 176, 54-68	201
1831	Major and trace element geochemistry and genesis of supracrustal rocks of the North Spirit Lake Greenstone belt, NW Ontario, Canada. 2009 , 174, 16-34	13
1830	An assessment of upper mantle heterogeneity based on abyssal peridotite isotopic compositions. 2009 , 114,	94
1829	Compositions of dikes and lavas from the Pito Deep Rift: Implications for crustal accretion at superfast spreading centers. 2009 , 114,	20
1828	Earth's global Ag, Al, Cr, Cu, Fe, Ni, Pb, and Zn cycles. 2009 , 23, n/a-n/a	181
1828 1827	Earth's global Ag, Al, Cr, Cu, Fe, Ni, Pb, and Zn cycles. 2009, 23, n/a-n/a Arc Basalt Simulator version 2, a simulation for slab dehydration and fluid-fluxed mantle melting for arc basalts: Modeling scheme and application. 2009, 10, n/a-n/a	181
	Arc Basalt Simulator version 2, a simulation for slab dehydration and fluid-fluxed mantle melting	
1827	Arc Basalt Simulator version 2, a simulation for slab dehydration and fluid-fluxed mantle melting for arc basalts: Modeling scheme and application. 2009 , 10, n/a-n/a Galapagos-OIB signature in southern Central America: Mantle refertilization by arcflot spot	62
1827 1826	Arc Basalt Simulator version 2, a simulation for slab dehydration and fluid-fluxed mantle melting for arc basalts: Modeling scheme and application. 2009, 10, n/a-n/a Galapagos-OIB signature in southern Central America: Mantle refertilization by arcflot spot interaction. 2009, 10, n/a-n/a Mantle source variations beneath the Eastern Lau Spreading Center and the nature of subduction	62 83
1827 1826 1825	Arc Basalt Simulator version 2, a simulation for slab dehydration and fluid-fluxed mantle melting for arc basalts: Modeling scheme and application. 2009, 10, n/a-n/a Galapagos-OIB signature in southern Central America: Mantle refertilization by arcflot spot interaction. 2009, 10, n/a-n/a Mantle source variations beneath the Eastern Lau Spreading Center and the nature of subduction components in the Lau basin II onga arc system. 2009, 10, n/a-n/a The 87Sr/86Sr and 143Nd/144Nd disequilibrium between Polynesian hot spot lavas and the clinopyroxenes they host: Evidence complementing isotopic disequilibrium in melt inclusions. 2009,	62 83 74
1827 1826 1825	Arc Basalt Simulator version 2, a simulation for slab dehydration and fluid-fluxed mantle melting for arc basalts: Modeling scheme and application. 2009, 10, n/a-n/a Galapagos-OIB signature in southern Central America: Mantle refertilization by arcflot spot interaction. 2009, 10, n/a-n/a Mantle source variations beneath the Eastern Lau Spreading Center and the nature of subduction components in the Lau basinflonga arc system. 2009, 10, n/a-n/a The 87Sr/86Sr and 143Nd/144Nd disequilibrium between Polynesian hot spot lavas and the clinopyroxenes they host: Evidence complementing isotopic disequilibrium in melt inclusions. 2009, 10, n/a-n/a Ancient carbonate sedimentary signature in the Hawaiian plume: Evidence from Mahukona volcano,	62 83 74 25
1827 1826 1825 1824	Arc Basalt Simulator version 2, a simulation for slab dehydration and fluid-fluxed mantle melting for arc basalts: Modeling scheme and application. 2009, 10, n/a-n/a Galapagos-OIB signature in southern Central America: Mantle refertilization by arcflot spot interaction. 2009, 10, n/a-n/a Mantle source variations beneath the Eastern Lau Spreading Center and the nature of subduction components in the Lau basin Tonga arc system. 2009, 10, n/a-n/a The 87Sr/86Sr and 143Nd/144Nd disequilibrium between Polynesian hot spot lavas and the clinopyroxenes they host: Evidence complementing isotopic disequilibrium in melt inclusions. 2009, 10, n/a-n/a Ancient carbonate sedimentary signature in the Hawaiian plume: Evidence from Mahukona volcano, Hawaii. 2009, 10, n/a-n/a Reconciling the geophysical and geochemical mantles: Plume flows, heterogeneities, and	62 83 74 25 25

1819	Melt generation, crystallization, and extraction beneath segmented oceanic transform faults. 2009 , 114,	55
1818	Lithospheric mantle duplex beneath the central Mojave Desert revealed by xenoliths from Dish Hill, California. 2009 , 114,	40
1817	Origins of chemical diversity of back-arc basin basalts: A segment-scale study of the Eastern Lau Spreading Center. 2009 , 114,	58
1816	Highly Sr radiogenic tholeiitic magmas in the latest inter-Plinian activity of Santorini volcano, Greece. 2009 , 114,	15
1815	The composition of KLB-1 peridotite. 2009 , 94, 176-180	57
1814	Subduction-related Volatile Recycling and Magma Generation beneath Central Mexico: Insights from Melt Inclusions, Oxygen Isotopes and Geodynamic Models. 2009 , 50, 1729-1764	114
1813	Average composition of basic magmas and mantle sources of island arcs and active continental margins estimated from the data on melt inclusions and quenched glasses of rocks. 2010 , 18, 1-26	22
1812	Oceanic plagiogranites as a result of interaction between magmatic and hydrothermal systems in the slow-spreading mid-ocean ridges. 2010 , 18, 369-383	23
1811	Comendite-bearing subduction-related volcanic associations in the Khan-Bogd area, southern Mongolia: Geochemical data. 2010 , 18, 571-595	3
1810	The Yermakovsky deposit, Western Transbaikal Region, Russia: Isotopic and geochemical parameters and sources of beryllium-bearing granitoids and other rocks. 2010 , 52, 289-301	4
1809	Liquid line of descent of a basanitic liquid at 1.5 Gpa: constraints on the formation of metasomatic veins. 2010 , 159, 621-643	75
1808	Mafic Late MioceneQuaternary volcanic rocks in the Kamchatka back arc region: implications for subduction geometry and slab history at the PacificAleutian junction. 2010 , 159, 659-687	45
1807	The variability of peridotite composition across a mantle shear zone (Lanzo massif, Italy): interplay of melt focusing and deformation. 2010 , 160, 663-679	21
1806	Partial melting of the dry mafic continental crust: Implications for petrogenesis of C-type adakites. 2010 , 55, 2428-2439	60
1805	Mantle source characteristics and melting models for the early-middle Miocene mafic volcanism in Western Anatolia: Implications for enrichment processes of mantle lithosphere and origin of K-rich volcanism in post-collisional settings. 2010 , 198, 112-128	70
1804	Geochemical evidence for deep mantle melting and lithospheric delamination as the origin of the inland Damavand volcanic rocks of northern Iran. 2010 , 198, 288-296	42
1803	Geochemical evidence of lithospheric thinning in the southern Main Ethiopian Rift. 2010 , 117, 33-48	64
1802	Petrological and geochemical constraints on the origin of the Nehbandan ophiolitic complex (eastern Iran): Implication for the evolution of the Sistan Ocean. 2010 , 117, 209-228	83

(2010-2010)

1801	Tectonic setting of the Jurassic bimodal magmatism in the Sakarya Zone (Central and Western Pontides), Northern Turkey: A geochemical and isotopic approach. 2010 , 118, 95-111	86
1800	Origin of the volcanic complexes of La Dŝirade, Lesser Antilles: Implications for tectonic reconstruction of the Late Jurassic to Cretaceous Pacific-proto Caribbean margin. 2010 , 120, 407-420	27
1799	Mantle plume or slab window?: Physical and geochemical constraints on the origin of the Caribbean oceanic plateau. 2010 , 98, 283-293	78
1798	Geochemical and instrumental fundamentals for accurate and precise strontium isotope data of food samples: Comment on D etermination of the strontium isotope ratio by ICP-MS ginseng as a tracer of regional origin[(Choi et al., 2008). 2010 , 121, 918-921	16
1797	Upside-down differentiation and generation of a 'primordial' lower mantle. 2010 , 463, 930-3	126
1796	Melt B eridotite Reactions and Fluid Metasomatism in the Upper Mantle, Revealed from the Geochemistry of Peridotite and Gabbro from the Horoman Peridotite Massif, Japan. 2010 , 51, 1417-1445	18
1795	Cryptic Variations in Abyssal Peridotite Compositions: Evidence for Shallow-level Melt Infiltration in the Oceanic Lithosphere. 2010 , 51, 395-423	65
1794	Mafic alkaline metasomatism in the lithosphere underneath East Serbia: evidence from the study of xenoliths and the host alkali basalts. 2010 , 337, 213-239	7
1793	Thermodynamics of the Earth's Mantle. 2010 , 71, 465-484	16
1792	Eclogites and Garnet Pyroxenites: Problems Resolving Provenance Using Lu-Hf, Sm-Nd and Rb-Sr Isotope Systems. 2010 , 51, 513-535	14
1791	Plume-Lithosphere Interaction during Migration of Cretaceous Alkaline Magmatism in SW Portugal: Evidence from U-Pb Ages and Pb-Sr-Hf Isotopes. 2010 , 51, 1143-1170	40
1790	Plagioclase Peridotites in Ocean-Continent Transitions: Refertilized Mantle Domains Generated by Melt Stagnation in the Shallow Mantle Lithosphere. 2010 , 51, 255-294	143
1789	Fluid Inputs to Magma Sources of St. Vincent and Grenada (Lesser Antilles): New Insights from Trace Elements in Olivine-hosted Melt Inclusions. 2010 , 51, 1597-1615	23
1788	Slab and Mantle Controls on the SrNdPbHf Isotope Evolution of the Post 42 Ma Izu B onin Volcanic Arc. 2010 , 51, 993-1026	53
1787	Coupled 182W-142Nd constraint for early Earth differentiation. 2010 , 107, 10810-4	27
1786	The Lanzo peridotite massif, Italian Western Alps: Jurassic rifting of the Ligurian Tethys. 2010 , 337, 47-69	10
1785	Petrogenesis and Origins of Mid-Cretaceous Continental Intraplate Volcanism in Marlborough, New Zealand: Implications for the Long-lived HIMU Magmatic Mega-province of the SW Pacific. 2010 , 51, 2003-2045	557
1784	A Two-Porosity Double Lithology Model for Partial Melting, Melt Transport and Melt-rock Reaction in the Mantle: Mass Conservation Equations and Trace Element Transport. 2010 , 51, 125-152	27

1783	Contrasting origins of serpentinites in a subduction complex, northern Dominican Republic. 2010 , 122, 292-304	53
1782	Geochemistry of Compositionally Distinct Late Cretaceous Back-Arc Basin Lavas: Implications for the Tectonomagmatic Evolution of the Caribbean Plate. 2010 , 118, 655-676	28
1781	Mechanisms of geochemical and geophysical variations along the western Galpagos Spreading Center. 2010 , 11, n/a-n/a	41
1780	Noble gases in the dynamic mantle. 2010 , 11, n/a-n/a	12
1779	Sources of constructional cross-chain volcanism in the southern Havre Trough: New insights from HFSE and REE concentration and isotope systematics. 2010 , 11, n/a-n/a	39
1778	Origin of cross-chain geochemical variation in Quaternary lavas from the northern Izu arc: Using a quantitative mass balance approach to identify mantle sources and mantle wedge processes. 2010 , 11, n/a-n/a	83
1777	Time scales of melt extraction revealed by distribution of lava composition across a ridge axis. 2010 , 11, n/a-n/a	17
1776	A mechanism for low-extent melts at the lithosphere-asthenosphere boundary. 2010 , 11, n/a-n/a	45
1775	Generation of permeability barriers during melt extraction at mid-ocean ridges. 2010, 11, n/a-n/a	47
1774	The Dehshir ophiolite (central Iran): Geochemical constraints on the origin and evolution of the Inner Zagros ophiolite belt. 2010 , 122, 1516-1547	79
1773	Non-modal melting in an upwelling mantle column: Steady-state models with applications to REE depletion in abyssal peridotites and the dynamics of melt migration in the mantle. 2010 , 74, 321-339	27
1772	In search of a hidden long-term isolated sub-chondritic 142Nd/144Nd reservoir in the deep mantle: Implications for the Nd isotope systematics of the Earth. 2010 , 74, 738-750	39
1771	Zn/Fe systematics in mafic and ultramafic systems: Implications for detecting major element heterogeneities in the Earth mantle. 2010 , 74, 2779-2796	195
1770	Structure, thermodynamics, and diffusion in CaAl2Si2O8 liquid from first-principles molecular dynamics. 2010 , 74, 5657-5671	51
1769	Non-chondritic Sm/Nd ratio in the terrestrial planets: Consequences for the geochemical evolution of the mantledrust system. 2010 , 74, 3333-3349	115
1768	Geochemical constraints on depth of origin of oceanic carbonatites: The Cape Verde case. 2010 , 74, 7261-726	82 ₃₄
1767	Deep pooling of low degree melts and volatile fluxes at the 85°E segment of the Gakkel Ridge: Evidence from olivine-hosted melt inclusions and glasses. <i>Earth and Planetary Science Letters</i> , 2010 , 289, 311-322	87
1766	Asthenospheric percolation of alkaline melts beneath the St. Paul region (Central Atlantic Ocean). Earth and Planetary Science Letters, 2010 , 289, 393-405	33

(2011-2010)

1765	(Solomon Islands): Evidence for multi-stage alkaline magmatic activity beneath the Ontong Java Plateau. <i>Earth and Planetary Science Letters</i> , 2010 , 295, 251-261	5.3	39
1764	Combining seismically derived temperature with heat flow and bathymetry to constrain the thermal structure of oceanic lithosphere. <i>Earth and Planetary Science Letters</i> , 2010 , 295, 390-400	5.3	21
1763	The influence of MORB and harzburgite composition on thermo-chemical mantle convection in a 3-D spherical shell with self-consistently calculated mineral physics. <i>Earth and Planetary Science Letters</i> , 2010 , 296, 403-412	5.3	97
1762	Geo-neutrinos and silicate earth enrichment of U and Th. <i>Earth and Planetary Science Letters</i> , 2010 , 297, 1-9	5.3	31
1761	Volatile contents of mafic magmas from cinder cones in the Central Oregon High Cascades: Implications for magma formation and mantle conditions in a hot arc. <i>Earth and Planetary Science Letters</i> , 2010 , 298, 153-161	5.3	64
1760	Chlorine isotope evidence for crustal recycling into the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2010 , 298, 175-182	5.3	73
1759	Global structure of mantle isotopic heterogeneity and its implications for mantle differentiation and convection. <i>Earth and Planetary Science Letters</i> , 2010 , 299, 339-351	5.3	234
1758	Subduction controls of Hf and Nd isotopes in lavas of the Aleutian island arc. <i>Earth and Planetary Science Letters</i> , 2010 , 300, 226-238	5.3	46
1757	Geochemical and geophysical estimates of lithospheric thickness variation beneath Galpagos. <i>Earth and Planetary Science Letters</i> , 2010 , 300, 275-286	5.3	71
1756	Chemical variations and regional diversity observed in MORB. 2010 , 271, 70-85		239
1756 1755	Chemical variations and regional diversity observed in MORB. 2010 , 271, 70-85 Chorine stable isotope variations in Izu Bonin tephra: Implications for serpentinite subduction. 2010 , 272, 62-74		239
	Chorine stable isotope variations in Izu Bonin tephra: Implications for serpentinite subduction.		
1755	Chorine stable isotope variations in Izu Bonin tephra: Implications for serpentinite subduction. 2010 , 272, 62-74 Carbonated mantle sources for Cenozoic intra-plate alkaline basalts in Shandong, North China.		34
1755 1754	Chorine stable isotope variations in Izu Bonin tephra: Implications for serpentinite subduction. 2010 , 272, 62-74 Carbonated mantle sources for Cenozoic intra-plate alkaline basalts in Shandong, North China. 2010 , 273, 35-45 Tracing fluidflock reaction and hydrothermal circulation at the Saldanha hydrothermal field. 2010 ,		34 136
1755 1754 1753	Chorine stable isotope variations in Izu Bonin tephra: Implications for serpentinite subduction. 2010, 272, 62-74 Carbonated mantle sources for Cenozoic intra-plate alkaline basalts in Shandong, North China. 2010, 273, 35-45 Tracing fluidflock reaction and hydrothermal circulation at the Saldanha hydrothermal field. 2010, 273, 168-179 Isotopic (Sr, Nd, Pb, and Os) composition of highly magnesian dikes of Vestfjella, western Dronning Maud Land, Antarctica: A key to the origins of the Jurassic Karoo large igneous province?. 2010,		34 136 17
1755 1754 1753 1752	Chorine stable isotope variations in Izu Bonin tephra: Implications for serpentinite subduction. 2010, 272, 62-74 Carbonated mantle sources for Cenozoic intra-plate alkaline basalts in Shandong, North China. 2010, 273, 35-45 Tracing fluidfock reaction and hydrothermal circulation at the Saldanha hydrothermal field. 2010, 273, 168-179 Isotopic (Sr, Nd, Pb, and Os) composition of highly magnesian dikes of Vestfjella, western Dronning Maud Land, Antarctica: A key to the origins of the Jurassic Karoo large igneous province?. 2010, 277, 227-244		34 136 17 62
1755 1754 1753 1752 1751	Chorine stable isotope variations in Izu Bonin tephra: Implications for serpentinite subduction. 2010, 272, 62-74 Carbonated mantle sources for Cenozoic intra-plate alkaline basalts in Shandong, North China. 2010, 273, 35-45 Tracing fluidfock reaction and hydrothermal circulation at the Saldanha hydrothermal field. 2010, 273, 168-179 Isotopic (Sr, Nd, Pb, and Os) composition of highly magnesian dikes of Vestfjella, western Dronning Maud Land, Antarctica: A key to the origins of the Jurassic Karoo large igneous province?. 2010, 277, 227-244 Partial melt in the oceanic low velocity zone. 2010, 179, 60-71 Diamond formation in the deep mantle: the record of mineral inclusions and their distribution in		341361762201

1747	Geochemical implications of gabbro from the slow-spreading Northern Central Indian Ocean Ridge, Indian Ocean. 2011 , 148, 404-422		11
1746	Differential motion between upper crust and lithospheric mantle in the central Basin and Range. 2011 , 4, 619-623		16
1745	The effect of Fe on olivine H2O storage capacity: Consequences for H2O in the martian mantle. 2011 , 96, 1039-1053		54
1744	Enriched basalts at segment centers: The Lucky Strike (37°17?N) and Menez Gwen (37°50?N) segments of the Mid-Atlantic Ridge. 2011 , 12, n/a-n/a		38
1743	The origin of Triassic/Jurassic kimberlite magmatism, Canada: Two mantle sources revealed from the Sr-Nd isotopic composition of groundmass perovskite. 2011 , 12, n/a-n/a		20
1742	Hf isotopic evidence for small-scale heterogeneity in the mode of mantle wedge enrichment: Southern Havre Trough and South Fiji Basin back arcs. 2011 , 12, n/a-n/a		31
1741	Does sea level influence mid-ocean ridge magmatism on Milankovitch timescales?. 2011 , 12, n/a-n/a		42
1740	Thermal evolution with a hydrating mantle and the initiation of plate tectonics in the early Earth. 2011 , 116,		82
1739	Ultramafic Cumulates of Oceanic Affinity in an Intracontinental Subduction Zone: Ultrahigh-Pressure Garnet Peridotites from Pohorje (Eastern Alps, Slovenia). 2011 , 399-439		1
1738	A young source for the Hawaiian plume. 2011 , 476, 434-7		67
1737	U and Th content in the Central Apennines continental crust: A contribution to the determination of the geo-neutrinos flux at LNGS. 2011 , 75, 2271-2294		33
1736	Manganese partitioning during hydrous melting of peridotite. 2011 , 75, 5819-5833		26
1735	Geochemistry of rare high-Nb basalt lavas: Are they derived from a mantle wedge metasomatised by slab melts?. 2011 , 75, 5049-5072		77
1734	Variations of Li and Mg isotope ratios in bulk chondrites and mantle xenoliths. 2011 , 75, 5247-5268		201
1733	Mineralogical and geochemical constraints on the shallow origin, ancient veining, and multi-stage modification of the Lherz peridotite. 2011 , 75, 6160-6182		30
1732	Understanding melt generation beneath the slow-spreading Kolbeinsey Ridge using 238U, 230Th, and 231Pa excesses. 2011 , 75, 6300-6329		29
1731	Ancient Os isotope signatures from the Ontong Java Plateau lithosphere: Tracing lithospheric accretion history. <i>Earth and Planetary Science Letters</i> , 2011 , 301, 159-170	5.3	49
1730	Crust recycling in the sources of two parallel volcanic chains in Shandong, North China. <i>Earth and Planetary Science Letters</i> , 2011 , 302, 359-368	5.3	92

1729	HfNd isotope and trace element constraints on subduction inputs at island arcs: Limitations of Hf anomalies as sediment input indicators. <i>Earth and Planetary Science Letters</i> , 2011 , 304, 212-223	5.3	63
1728	Fe2+Mg partitioning between olivine and basaltic melts: Applications to genesis of olivine-phyric shergottites and conditions of melting in the Martian interior. <i>Earth and Planetary Science Letters</i> , 2011 , 304, 527-537	5.3	100
1727	The composition of the incipient partial melt of garnet peridotite at 3 GPa and the origin of OIB. <i>Earth and Planetary Science Letters</i> , 2011 , 308, 380-390	5.3	80
1726	Abyssal peridotite Hf isotopes identify extreme mantle depletion. <i>Earth and Planetary Science Letters</i> , 2011 , 308, 359-368	5.3	122
1725	An integrative geologic, geochronologic and geochemical study of Gorgona Island, Colombia: Implications for the formation of the Caribbean Large Igneous Province. <i>Earth and Planetary Science Letters</i> , 2011 , 309, 324-336	5.3	35
1724	Oxygen isotope evidence for the formation of silicic Kermadec island arc and Havrellau backarc magmas by fractional crystallisation. <i>Earth and Planetary Science Letters</i> , 2011 , 309, 348-355	5.3	12
1723	Solubility of Os and Ir in sulfide melt: Implications for Re/Os fractionation during mantle melting. <i>Earth and Planetary Science Letters</i> , 2011 , 311, 339-350	5.3	63
1722	U-series isotope systematics of mafic magmas from central Oregon: Implications for fluid involvement and melting processes in the Cascade arc. <i>Earth and Planetary Science Letters</i> , 2011 , 312, 378-389	5.3	6
1721	Geochemistry. When continents formed. 2011 , 331, 154-5		279
1720	New ArAr ages of southern Indian kimberlites and a lamproite and their geochemical evolution. 2011 , 189, 91-103		35
1719	The Magmatic to Hydrothermal Evolution of the Intrusive Mont Saint-Hilaire Complex: Insights into the Late-stage Evolution of Peralkaline Rocks. 2011 , 52, 2147-2185		27
1718	References. 218-229		
1717	Thermodynamics of mantle minerals - II. Phase equilibria. 2011 , 184, 1180-1213		376
1716	SHAFT-HOLE AXES FROM CAPUT ADRIAE: MINERALOGICAL AND CHEMICAL CONSTRAINTS ABOUT THE PROVENANCE OF SERPENTINITIC ARTEFACTS*. 2011 , 53, 261-284		10
1715	Peridotite-gabbro-trondhjemite association of the Mid-Atlantic Ridge between 12°58? and 14°45?N: Ashadze and Logachev hydrothermal vent fields. 2011 , 49, 323-354		16
1714	The origin and evolution of the parental magmas of frontal volcanoes in Kamchatka: Evidence from magmatic inclusions in olivine from Zhupanovsky volcano. 2011 , 49, 743-767		11
1713	Evidence for multi-stage mantle metasomatism at the Dehsheikh peridotite massif and chromite deposits of the Orzuieh coloured mlange belt, southeastern Iran. 2011 , 39, 245-264		15
1712	Insight into the uppermost mantle section of a maturing arc: The Eastern Mirdita ophiolite, Albania. 2011 , 124, 215-226		72

1711	Petrogenesis and tectono-magmatic significance of basalts and mantle peridotites from the Albanian reek ophiolites and sub-ophiolitic mlanges. New constraints for the Triassic urassic evolution of the Neo-Tethys in the Dinaride sector. 2011 , 124, 227-242	68
1710	Geochemistry and petrogenesis of high-K Banukitoids From the Bulai pluton, Central Limpopo Belt, South Africa: Implications for geodynamic changes at the Archaean Proterozoic boundary. 2011 , 123, 73-91	58
1709	40Ar/39Ar ages and SrNdPbDs geochemistry of CAMP tholeiites from Western MaranhD basin (NE Brazil). 2011 , 122, 137-151	87
1708	Geochemical constraints on the nature of mantle source for Cenozoic continental basalts in east-central China. 2011 , 125, 940-955	91
1707	Origin of postcollisional magmatic rocks in the Dabie orogen: Implications for crusthantle interaction and crustal architecture. 2011 , 126, 99-114	84
1706	Enriching mantle melts within a dying mid-ocean spreading ridge: Insights from Hf-isotope and trace element patterns in detrital oceanic zircon. 2011 , 126, 355-368	13
1705	Early Cretaceous volcanism of the Coastal Ranges, NW Syria: Magma genesis and regional dynamics. 2011 , 126, 290-306	14
1704	Origin and significance of the ophiolitic high-P mlanges in the northern Caribbean convergent margin: Insights from the geochemistry and large-scale structure of the RB San Juan metamorphic complex. 2011 , 127, 483-504	34
1703	Mantle ultrabasites of ophiolite complexes in the Polar Urals: Petrogenesis and geodynamic environments. 2011 , 19, 618-640	21
1702	High-Mg# andesitic lavas of the Shisheisky Complex, Northern Kamchatka: implications for primitive calc-alkaline magmatism. 2011 , 161, 791-810	24
1701	Trace element partitioning between mica- and amphibole-bearing garnet lherzolite and hydrous basanitic melt: 2. Tasmanian Cainozoic basalts and the origins of intraplate basaltic magmas. 2011 , 161, 883-899	28
1700	Geochemistry of southern Pagan Island lavas, Mariana arc: the role of subduction zone processes. 2011 , 162, 231-252	23
1699	Electrical conductivity of hydrous basaltic melts: implications for partial melting in the upper mantle. 2011 , 162, 637-650	137
1698	Influence of subsolidus processes on the chromium number in spinel in ultramafic rocks. 2011 , 162, 675-689	26
1697	On the enigma of Nb-Ta and Zr-Hf fractionation A critical review. 2011 , 22, 52-66	23
1696	Perspective on the Genesis of E-MORB from Chemical and Isotopic Heterogeneity at 9¶0°N East Pacific Rise. 2011 , 52, 565-602	84
1695	Pb-isotopic evidence for rapid trench-parallel mantle flow beneath Vanuatu. 2011 , 168, 265-271	17
1694	The Petrology and Geochemistry of St. Helena Alkali Basalts: Evaluation of the Oceanic Crust-recycling Model for HIMU OIB. 2011 , 52, 791-838	101

1693	The fate of subducted oceanic crust: a mineral segregation model. 2011 , 53, 879-893	13
1692	Dynamical geochemistry of the mantle. 2011 ,	1
1691	Differentiation and Source Processes at Mt Pelè and the Quill; Active Volcanoes in the Lesser Antilles Arc. 2011 , 52, 1493-1531	43
1690	Monte Carlo Simulations of Metasomatic Enrichment in the Lithosphere and Implications for the Source of Alkaline Basalts. 2011 , 52, 1415-1442	162
1689	Geodynamic evolution of Upper Cretaceous Zagros ophiolites: formation of oceanic lithosphere above a nascent subduction zone. 2011 , 148, 762-801	108
1688	The lithospheric mantle and lower crustthantle relationships under Scotland: a xenolithic perspective. 2011 , 168, 873-886	29
1687	Dynamical geochemistry of the mantle. 2011 , 2, 159-189	7
1686	Melting and Crustal Processes at the FAMOUS Segment (Mid-Atlantic Ridge): New Insights from Olivine-hosted Melt Inclusions from Multiple Samples. 2012 , 53, 665-698	43
1685	Melting of a Two-component Source beneath Iceland. 2012 , 53, 127-157	55
1684	The Petrology and Geochemistry of Lavas from the Western Azores Islands of Flores and Corvo. 2012 , 53, 1673-1708	34
1683	Natural and Anthropogenic Cd Isotope Variations. 2012 , 125-154	20
1682	. 2012 , 8, 265	32
1681	Chronology and Geochemistry of Lavas from the Nazca Ridge and Easter Seamount Chain: an ´30 Myr Hotspot Record. 2012 , 53, 1417-1448	34
1680	Depleted Basaltic Lavas from the Proto-Iceland Plume, Central East Greenland. 2012 , 53, 1569-1596	11
1679	Geoneutrinos. 2012 , 2012, 1-34	8
1678	Petrology, Trace Element and Sr, Nd, Hf Isotope Geochemistry of the North Lanzo Peridotite Massif (Western Alps, Italy). 2012 , 53, 2259-2306	23
1677	Reactive Melt Flow as the Origin of Residual Mantle Lithologies and Basalt Chemistries in Mid-Ocean Ridges: Implications from the Red Hills Peridotite, New Zealand. 2012 , 53, 1637-1671	31
1676	Geochemical temporal evolution of Brava Island magmatism: Constraints on the variability of Cape Verde mantle sources and on carbonatiteBilicate magma link. 2012 , 334, 44-61	25

1675	NbIIa fractionation induced by fluid-rock interaction in subduction-zones: constraints from UHP eclogite- and vein-hosted rutile from the Dabie orogen, Central-Eastern China. 2012 , 30, 821-842		32	
1674	Magma Origin and Evolution of Tengchong Cenozoic Volcanic Rocks from West Yunnan, China: Evidence from Whole Rock Geochemistry and Nd-Sr-Pb Isotopes. 2012 , 86, 867-878		24	
1673	The molar volume of FeOMgOHe2O3IIr2O3IIIO2 spinels. 2012 , 165, 25		3	
1672	Syn-exhumation magmatism during continental collision: Evidence from alkaline intrusives of Triassic age in the Sulu orogen. 2012 , 328, 70-88		122	
1671	Tholeiite B oninite terrane in the North Qilian suture zone: Implications for subduction initiation and back-arc basin development. 2012 , 328, 259-277		110	
1670	Metamorphic chemical geodynamics in continental subduction zones. 2012 , 328, 5-48		390	
1669	Earth's heterogeneous mantle: A product of convection-driven interaction between crust and mantle. 2012 , 330-331, 274-299		240	
1668	Remains of early Ordovician mantle-derived magmatism in the Santander Massif (Colombian Eastern Cordillera). 2012 , 38, 1-12		20	
1667	The Cretaceous to Paleogene within-plate magmatism of Pachino-Capo Passero (southeastern Sicily) and Adria (La Queglia and Pietre Nere, southern Italy): geochemical and isotopic evidence against a plume-related origin of circum-Mediterranean magmas. 2012 , 24, 73-96		17	
1666	Geochronology and geochemistry of the Nantianwan maficultramafic complex, Emeishan large igneous province: metallogenesis of magmatic Niu sulphide deposits and geodynamic setting. 2012 , 54, 1746-1764		7	
1665	A new metallogenic model of the Panzhihua giant VIIII on oxide deposit (Emeishan Large Igneous Province) based on high-Mg olivine-bearing wehrlite and new field evidence. 2012 , 54, 1721-1745		27	
1664	Petrological geodynamic modeling of mid-ocean ridges. 2012 , 190-191, 51-70		8	
1663	Geochemistry and geochronology of the c. 1585Ma Benagerie Volcanic Suite, southern Australia: Relationship to the Gawler Range Volcanics and implications for the petrogenesis of a Mesoproterozoic silicic large igneous province. 2012 , 206-207, 17-35		36	
1662	Geoneutrinos and the energy budget of the Earth. 2012 , 54, 43-54		27	
1661	Preservation of ancient Os isotope signatures in the Yungbwa ophiolite (southwestern Tibet) after subduction modification. 2012 , 53, 38-50		40	
1660	Chemical heterogeneity in the upper mantle recorded by peridotites and chromitites from the Shetland Ophiolite Complex, Scotland. <i>Earth and Planetary Science Letters</i> , 2012 , 333-334, 226-237	5.3	67	
1659	Hafnium isotope evidence from Archean granitic rocks for deep-mantle origin of continental crust. <i>Earth and Planetary Science Letters</i> , 2012 , 337-338, 211-223	5.3	138	
1658	H2O storage capacity of olivine at 5BGPa and consequences for dehydration partial melting of the upper mantle. <i>Earth and Planetary Science Letters</i> , 2012 , 345-348, 104-116	5.3	63	

(2012-2012)

1657	SolEx: A model for mixed COHSCl-volatile solubilities and exsolved gas compositions in basalt. 2012 , 45, 87-97	90
1656	Major geological cycles substantiated by U P b ages and H fi of detrital zircon grains from the Lower Rhine Basin. 2012 , 294-295, 63-74	4
1655	Hydrogen and oxygen isotope behaviors during variable degrees of upper mantle melting: Example from the basaltic glasses from Macquarie Island. 2012 , 310-311, 126-136	43
1654	Asthenospheric source of Neoproterozoic and Mesozoic kimberlites from the North Atlantic craton, West Greenland: New high-precision UPb and SrNd isotope data on perovskite. 2012, 320-321, 113-127	49
1653	Eocene volcanism during the incipient stage of IzuDgasawara Arc: Geology and petrology of the Mukojima Island Group, the Ogasawara Islands. 2012 , 21, 288-316	31
1652	Geophysics of Chemical Heterogeneity in the Mantle. 2012 , 40, 569-595	109
1651	Magma Evolution in the Primitive, Intra-oceanic Tonga Arc: Petrogenesis of Basaltic Andesites at Tofua Volcano. 2012 , 53, 1197-1230	26
1650	Chemical and Isotopic Characteristics of the Kuroko-Forming Volcanism. 2012 , 62, 369-383	13
1649	Global variations in H2O/Ce: 1. Slab surface temperatures beneath volcanic arcs. 2012, 13, n/a-n/a	98
1648	The effect of H2O on partial melting of garnet peridotite at 3.5 GPa. 2012 , 13, n/a-n/a	43
1647	Large volumes of rejuvenated volcanism in Samoa: Evidence supporting a tectonic influence on late-stage volcanism. 2012 , 13, n/a-n/a	38
1646	Late Paleozoic to Early Mesozoic tectonic evolution of northeast Tibet: Evidence from the Triassic composite western Jinsha-Garz ^e Litang suture. 2012 , 31, n/a-n/a	82
1645	Lithosphere versus asthenosphere mantle sources at the Big Pine Volcanic Field, California. 2012 , 13, n/a-n/a	46
1644	Tracking the magmatic evolution of island arc volcanism: Insights from a high-precision Pb isotope record of Montserrat, Lesser Antilles. 2012 , 13,	29
1643	OIB/seamount recycling as a possible process for E-MORB genesis. 2012 , 13, n/a-n/a	28
1642	Homogeneous superchondritic 142Nd/144Nd in the mid-ocean ridge basalt and ocean island basalt mantle. 2012 , 13, n/a-n/a	37
1641	Birth of an ocean in the Red Sea: Initial pangs. 2012 , 13, n/a-n/a	61
1640	The sources of volatile and fluid-mobile elements in the Sunda arc: A melt inclusion study from Kawah Ijen and Tambora volcanoes, Indonesia. 2012 , 13,	19

1639	Tracing mantle sources and Samoan influence in the northwestern Lau back-arc basin. 2012, 13, n/a-n/a	37
1638	Major element variations in Hawaiian shield lavas: Source features and perspectives from global ocean island basalt (OIB) systematics. 2012 , 13,	52
1637	Emplacement mechanism of off-axis large submarine lava field from the Oman Ophiolite. 2012 , 117, n/a-n/a	16
1636	Mantle flow, volatiles, slab-surface temperatures and melting dynamics in the north Tonga arc¶au back-arc basin. 2012 , 117, n/a-n/a	13
1635	Geoneutrinos and the radioactive power of the Earth. 2012 , 50,	52
1634	Effects of heterogeneous hydration in the incoming plate, slab rehydration, and mantle wedge hydration on slab-derived H2O flux in subduction zones. <i>Earth and Planetary Science Letters</i> , 2012 , 5.3 353-354, 60-71	69
1633	The heavy noble gas composition of the depleted MORB mantle (DMM) and its implications for the preservation of heterogeneities in the mantle. Earth and Planetary Science Letters, 2012 , 355-356, 244-2 54^3	50
1632	Evidence from mantle xenoliths for lithosphere removal beneath the central Rio Grande Rift. <i>Earth and Planetary Science Letters</i> , 2012 , 355-356, 82-93	30
1631	Effect of fluid circulation on subduction interface tectonic processes: Insights from thermo-mechanical numerical modelling. <i>Earth and Planetary Science Letters</i> , 2012 , 357-358, 238-248	67
1630	Lead and osmium isotopic constraints on the oceanic mantle from single abyssal peridotite sulfides. Earth and Planetary Science Letters, 2012 , 359-360, 279-293 5-3	52
1629	Geochronology, geochemistry and petrogenesis of Neoproterozoic basalts from Sugetbrak, northwest Tarim block, China: Implications for the onset of Rodinia supercontinent breakup. 2012 , 220-221, 158-176	54
1628	Metasomatism and metallogeny of A-type granites of the Mt PainterMt Babbage Inliers, South Australia. 2012 , 151, 83-104	19
1627	Post-collisional transition from an extensional volcano-sedimentary basin to a continental arc in the Alborz Ranges, N-Iran. 2012 , 148, 98-111	73
1626	Petrological and SrNdDs isotopic constraints on the origin of the Fanshan ultrapotassic complex from the North China Craton. 2012 , 149, 146-158	31
1625	Zircon UPb age and geochemical constraints on the origin of the Birjand ophiolite, Sistan suture zone, eastern Iran. 2012 , 154, 392-405	66
1624	Trace Element and Lu-Hf Systematics in Hadean-Archean Detrital Zircons: Implications for Crustal Evolution. 2012 , 120, 15-29	40
1623	From basalts to boninites: The geodynamics of volcanic expression during induced subduction initiation. 2012 , 4, 511-523	31
1622	Geochemistry of abyssal peridotites from the super slow-spreading Southwest Indian Ridge near 65°E: Implications for magma source and seawater alteration. 2012 , 121, 1317-1336	8

1621	Unradiogenic lead in Earth upper mantle. 2012 , 5, 570-573	48
1620	Petrogenesis and geotectonic setting of early Svecofennian arc cumulates in the Roslagen area, east-central Sweden. 2012 , 47, 557-593	15
1619	Early precambrian A-granitoids in the Aldan Shield and adjacent mobile belts: Sources and geodynamic environments. 2012 , 20, 218-239	31
1618	Evidence against a chondritic Earth. 2012 , 483, 553-8	84
1617	Distribution of REE between clinopyroxene and basaltic melt along a mantle adiabat: effects of major element composition, water, and temperature. 2012 , 163, 807-823	113
1616	A parameterized model for REE distribution between low-Ca pyroxene and basaltic melts with applications to REE partitioning in low-Ca pyroxene along a mantle adiabat and during pyroxenite-derived melt and peridotite interaction. 2012 , 164, 261-280	66
1615	Trace element and Pb B Ii isotope systematics of olivine-hosted melt inclusions: insights into source metasomatism beneath Stromboli (southern Italy). 2012 , 163, 1011-1031	20
1614	Geochemical heterogeneities and dynamics of magmas within the plumbing system of a persistently active volcano: evidence from Stromboli. 2012 , 74, 881-894	16
1613	Amphibolites from the Szklarska Porßa hornfels belt, West Sudetes, SW Poland: magma genesis and implications for the break-up of Gondwana. 2012 , 101, 1253-1272	4
1612	Petrological, geochemical and isotopic characteristics of the lithospheric mantle beneath Sardinia (Italy) as indicated by ultramafic xenoliths enclosed in alkaline lavas. 2012 , 101, 1111-1125	12
1611	The effects of lithospheric thickness and density structure on Earth's stress field. 2012 , 188, 1-17	41
1610	Volcanic arcs as archives of plate tectonic change. 2012 , 21, 495-516	59
1609	Petrogenesis of the Miocene volcanism along the "zmir-Bal" kesir Transfer Zone in western Anatolia, Turkey: Implications for origin and evolution of potassic volcanism in post-collisional areas. 2012 , 241-242, 21-38	39
1608	Discovery of an adakite-like pluton near Dongqiyishan (Beishan, NW China) Ilts age and tectonic significance. 2012 , 142-143, 148-160	38
1607	Crustal thickening along the West Antarctic Gondwana margin during mid-Cretaceous deformation of the Triassic intra-oceanic Dyer Arc. 2012 , 142-143, 130-147	26
1606	Modification of subcontinental lithospheric mantle above continental subduction zone: Constraints from geochemistry of Mesozoic gabbroic rocks in southeastern North China. 2012 , 146-147, 164-182	50
1605	Slabhantle interaction for thinning of cratonic lithospheric mantle in North China: Geochemical evidence from Cenozoic continental basalts in central Shandong. 2012 , 146-147, 202-217	96
1604	Gabbroic rocks in ophiolitic occurrences from East Othris, Greece: petrogenetic processes and geotectonic environment implications. 2012 , 104, 249-265	20

1603	The high PT stability of apatite and Cl partitioning between apatite and hydrous potassic phases in peridotite: an experimental study to 19 GPa with implications for the transport of P, Cl and K in the upper mantle. 2012 , 163, 277-296		43
1602	H2O storage capacity of olivine and low-Ca pyroxene from 10 to 13 GPa: consequences for dehydration melting above the transition zone. 2012 , 163, 297-316		58
1601	Petrogenesis of the Neogene volcanic units in the NEBW-trending basins in western Anatolia, Turkey. 2012 , 163, 379-401		50
1600	Mafic magmas from Mount Baker in the northern Cascade arc, Washington: probes into mantle and crustal processes. 2012 , 163, 521-546		8
1599	Geochronological, geochemical and SrNdHf isotopic constraints on the origin of the Cretaceous intraplate volcanism in West Qinling, Central China: Implications for asthenosphereIlthosphere interaction. 2013 , 177, 381-401		25
1598	PlioceneQuaternary volcanic rocks of NW Armenia: Magmatism and lithospheric dynamics within an active orogenic plateau. 2013 , 180-181, 200-215		51
1597	Eocene-Quaternary magmatic activity in the Aegean: Implications for mantle metasomatism and magma genesis in an evolving orogeny. 2013 , 180-181, 5-24		79
1596	A composite, isotopically-depleted peridotite and enriched pyroxenite source for Madeira magmas: Insights from olivine. 2013 , 170-171, 224-238		17
1595	Carbon Mineral Evolution. 2013, 75, 79-107		23
1594	Crustal growth in the 3.4½.7Ga Sồ Jos'de Campestre Massif, Borborema Province, NE Brazil. 2013 , 227, 120-156		62
1593	Mantle composition controls the development of an Oceanic Core Complex. 2013 , 14, 979-995		19
1592	Across-arc geochemical variations in the Southern Volcanic Zone, Chile (34.5B8.0°S): Constraints on mantle wedge and slab input compositions. 2013 , 123, 218-243		89
1591	Major and trace element composition of the high 3He/4He mantle: Implications for the composition of a nonchonditic Earth. 2013 , 14, 2954-2976		47
1590	Two-stage evolution of mantle peridotites from the Stalemate Fracture Zone, northwestern Pacific. 2013 , 51, 683-695		6
1589	Small-scale coexistence of island-arc- and enriched-MORB-type basalts in the central Vanuatu arc. 2013 , 166, 1305-1321		30
1588	Post-collisional, K-rich mafic magmatism in south Tibet: constraints on Indian slab-to-wedge transport processes and plateau uplift. 2013 , 165, 1311-1340		94
1587	Mixed pyroxeniteBeridotite sources for mafic and ultramafic dikes from the Antarctic segment of the Karoo continental flood basalt province. 2013 , 177, 366-380		36
1586	Elastic properties of MgSiO3-perovskite under lower mantle conditions and the composition of the deep Earth. <i>Earth and Planetary Science Letters</i> , 2013 , 379, 1-12	5.3	50

(2013-2013)

Meltperidotite reactions in upwelling eclogite bodies: Constraints from EM1-type alkaline basalts in Payenia, Argentina. 2013 , 360-361, 204-219	20
Petrogenesis of Early Paleozoic basalts and gabbros in the western Cuyania terrane: Constraints on the tectonic setting of the southwestern Gondwana margin (Sierra del Tigre, Andean Argentine Precordillera). 2013 , 24, 359-376	26
Geochronology and petrology of the Early Carboniferous Misho Mafic Complex (NW Iran), and implications for the melt evolution of Paleo-Tethyan rifting in Western Cimmeria. 2013 , 162-163, 264-278	64
Postcollisional mafic igneous rocks record crust-mantle interaction during continental deep subduction. 2013 , 3, 3413	104
Iron isotopic systematics of oceanic basalts. 2013 , 107, 12-26	143
Geochemistry and petrogenesis of the Late Cretaceous Haji-Abad ophiolite (Outer Zagros Ophiolite Belt, Iran): implications for geodynamics of the Bitlis Zagros suture zone. 2013 , 48, 579-602	21
Calc-alkaline lamprophyres from Lusatia (Germany)Evidence for a repeatedly enriched mantle source. 2013 , 353, 230-245	31
The importance of crystal chemistry on REE partitioning between mantle minerals (garnet, clinopyroxene, orthopyroxene, and olivine) and basaltic melts. 2013 , 358, 23-36	54
Mantle refertilization by melts of crustal-derived garnet pyroxenite: Evidence from the Ronda peridotite massif, southern Spain. <i>Earth and Planetary Science Letters</i> , 2013 , 362, 66-75	36
A heat flow based cooling model for tectonic plates. <i>Earth and Planetary Science Letters</i> , 2013 , 361, 34-43.3	74
Abyssal peridotites reveal the near-chondritic Fe isotopic composition of the Earth. <i>Earth and Planetary Science Letters</i> , 2013 , 365, 63-76	111
Geochemical heterogeneities within the Crozet hotspot. <i>Earth and Planetary Science Letters</i> , 2013 , 376, 126-136	27
Upper and lower crust recycling in the source of CAMP basaltic dykes from southeastern North America. <i>Earth and Planetary Science Letters</i> , 2013 , 376, 186-199	53
Generation of Arc and Within-plate Chemical Signatures in Collision Zone Magmatism: Quaternary Lavas from Kurdistan Province, Iran. 2013 , 54, 887-911	79
New Thermodynamic Models and Calculated Phase Equilibria in NCFMAS for Basic and Ultrabasic Compositions through the Transition Zone into the Uppermost Lower Mantle. 2013 , 54, 1901-1920	47
In-situ trace elements and Li and Sr isotopes in peridotite xenoliths from Kuandian, North China Craton: Insights into Pacific slab subduction-related mantle modification. 2013 , 354, 107-123	49
Coupled HfNdPb isotope co-variations of HIMU oceanic island basalts from Mangaia, Cook-Austral islands, suggest an Archean source component in the mantle transition zone. 2013 , 112, 87-101	31
An overview of monogenetic carbonatitic magmatism from Uganda, Italy, China and Spain: Volcanologic and geochemical features. 2013 , 41, 140-159	32
	in Payenia, Argentina. 2013, 360-361, 204-219 Petrogenesis of Early Paleozoic basalts and gabbros in the western Cuyania terrane: Constraints on the tectonic setting of the southwestern Gondwana margin (Sierra del Tigre, Andean Argentine Precordillera). 2013, 24, 359-376 Geochronology and petrology of the Early Carboniferous Misho Mafic Complex (NW Iran), and implications for the melt evolution of Paleo-Tethyan rifting in Western Cimmeria. 2013, 162-163, 264-278 Postcollisional mafic igneous rocks record crust-mantle interaction during continental deep subduction. 2013, 3, 3413 Iron isotopic systematics of oceanic basalts. 2013, 107, 12-26 Geochemistry and petrogenesis of the Late Cretaceous Haji-Abad ophilolite (Outer Zagros Ophilolite Belt, Iran): implications for geodynamics of the Bitlisflagros suture zone. 2013, 48, 579-602 Calc-alkaline lamprophyres from Lusatia (Germany)Buidence for a repeatedly enriched mantle source. 2013, 353, 230-245 The importance of crystal chemistry on REE partitioning between mantle minerals (garnet, clinopyroxene, orthopyroxene, and olivino) and basaltic melts. 2013, 358, 23-36 Mantle refertilization by melts of crustal-derived garnet pyroxenite: Evidence from the Ronda peridotite massif, southern Spain. Earth and Planetary Science Letters, 2013, 361, 361, 34-43, 3 Abyssal peridotites reveal the near-chondritic Fe isotopic composition of the Earth. Earth and Planetary Science Letters, 2013, 363, 63-76 Geochemical heterogeneities within the Crozet hotspot. Earth and Planetary Science Letters, 2013, 376, 126-136 Upper and lower crust recycling in the source of CAMP basaltic dykes from southeastern North America. Earth and Planetary Science Letters, 2013, 376, 186-199 Sarchina Planetary Science Letters, 2013, 376, 186-199 Generation of Arc and Within-plate Chemical Signatures in Collision Zone Magmatism: Quaternary Lavas from Kurdistan Province, Iran. 2013, 54, 887-911 New Thermodynamic Models and Calculated Phase Equilibria in NCFMAS for Basic and Ultrabasic Composit

1567	Melting of dehydrated oceanic crust from the stagnant slab and of the hydrated mantle transition zone: Constraints from Cenozoic alkaline basalts in eastern China. 2013 , 359, 32-48		101
1566	The effects of K2O on the compositions of near-solidus melts of garnet peridotite at 3 GPa and the origin of basalts from enriched mantle. 2013 , 166, 1029-1046		18
1565	Mantle melting beneath the Southwest Indian Ridge: signals from clinopyroxene in abyssal peridotites. 2013 , 32, 50-59		3
1564	The naked planet Earth: Most essential pre-requisite for the origin and evolution of life. 2013, 4, 141-16	5	96
1563	Simplified mantle architecture and distribution of radiogenic power. 2013 , 14, 2265-2285		20
1562	Sill and lava geochemistry of the mid-Norway and NE Greenland conjugate margins. 2013 , 14, 3666-369	0	12
1561	The Early Andean subduction system as an analog to island arcs: Evidence from across-arc geochemical variations in northern Chile. 2013 , 179, 211-230		42
1560	Mesoproterozoic high FeIIi mafic magmatism in western Shandong, North China Craton: Petrogenesis and implications for the final breakup of the Columbia supercontinent. 2013 , 235, 190-20	7	38
1559	Early differentiation of the bulk silicate Earth as recorded by the oldest mantle reservoir. 2013 , 238, 52-60		11
1558	The continental record and the generation of continental crust. 2013 , 125, 14-32		353
1558 1557	The continental record and the generation of continental crust. 2013 , 125, 14-32 Renewed melting at the abandoned H"naflofRift, northern Iceland, caused by plume pulsing. <i>Earth and Planetary Science Letters</i> , 2013 , 377-378, 227-238	5.3	353 10
	Renewed melting at the abandoned H"naflo®Rift, northern Iceland, caused by plume pulsing. <i>Earth</i>	5·3 5·3	
1557	Renewed melting at the abandoned H"naflofRift, northern Iceland, caused by plume pulsing. <i>Earth and Planetary Science Letters</i> , 2013 , 377-378, 227-238 Short length scale mantle heterogeneity beneath Iceland probed by glacial modulation of melting.		10
1557 1556	Renewed melting at the abandoned H"naflofRift, northern Iceland, caused by plume pulsing. Earth and Planetary Science Letters, 2013, 377-378, 227-238 Short length scale mantle heterogeneity beneath Iceland probed by glacial modulation of melting. Earth and Planetary Science Letters, 2013, 379, 146-157 Pervasive reactive melt migration through fast-spreading lower oceanic crust (Hess Deep,	5.3	10
1557 1556 1555	Renewed melting at the abandoned H"naflofRift, northern Iceland, caused by plume pulsing. Earth and Planetary Science Letters, 2013, 377-378, 227-238 Short length scale mantle heterogeneity beneath Iceland probed by glacial modulation of melting. Earth and Planetary Science Letters, 2013, 379, 146-157 Pervasive reactive melt migration through fast-spreading lower oceanic crust (Hess Deep, equatorial Pacific Ocean). Earth and Planetary Science Letters, 2013, 361, 436-447 Controls on magmatic cycles and development of rift topography of the Manda Hararo segment (Afar, Ethiopia): Insights from cosmogenic 3He investigation of landscape evolution. Earth and	5.3	10 29 96
1557 1556 1555 1554	Renewed melting at the abandoned H"naflolRift, northern Iceland, caused by plume pulsing. Earth and Planetary Science Letters, 2013, 377-378, 227-238 Short length scale mantle heterogeneity beneath Iceland probed by glacial modulation of melting. Earth and Planetary Science Letters, 2013, 379, 146-157 Pervasive reactive melt migration through fast-spreading lower oceanic crust (Hess Deep, equatorial Pacific Ocean). Earth and Planetary Science Letters, 2013, 361, 436-447 Controls on magmatic cycles and development of rift topography of the Manda Hararo segment (Afar, Ethiopia): Insights from cosmogenic 3He investigation of landscape evolution. Earth and Planetary Science Letters, 2013, 367, 133-145 Insights on deep, accretionary subduction processes from the Sistan ophiolitic hlangel[Eastern	5.3	10 29 96 20
1557 1556 1555 1554	Renewed melting at the abandoned H"nafloRift, northern Iceland, caused by plume pulsing. Earth and Planetary Science Letters, 2013, 377-378, 227-238 Short length scale mantle heterogeneity beneath Iceland probed by glacial modulation of melting. Earth and Planetary Science Letters, 2013, 379, 146-157 Pervasive reactive melt migration through fast-spreading lower oceanic crust (Hess Deep, equatorial Pacific Ocean). Earth and Planetary Science Letters, 2013, 361, 436-447 Controls on magmatic cycles and development of rift topography of the Manda Hararo segment (Afar, Ethiopia): Insights from cosmogenic 3He investigation of landscape evolution. Earth and Planetary Science Letters, 2013, 367, 133-145 Insights on deep, accretionary subduction processes from the Sistan ophiolitic fhlangel(Eastern Iran). 2013, 156-159, 139-158	5.3	10 29 96 20 47

1549	Evolution and origin of the Miocene intraplate basalts on the Aleppo Plateau, NW Syria. 2013, 335, 149-17	71	21
1548	Identification of an ancient mantle reservoir and young recycled materials in the source region of a young mantle plume: Implications for potential linkages between plume and plate tectonics. <i>Earth and Planetary Science Letters</i> , 2013 , 377-378, 248-259	.3	96
1547	Trace element partitioning between mantle minerals and silico-carbonate melts at 612GPa and applications to mantle metasomatism and kimberlite genesis. 2013 , 160-161, 183-200		58
1546	Diamond-forming fluids in fibrous diamonds: The trace-element perspective. <i>Earth and Planetary Science Letters</i> , 2013 , 376, 110-125	.3	39
1545	The evolution of the 87Sr/86Sr of marine carbonates does not constrain continental growth. 2013 , 229, 177-188		49
1544	From back-arc to rifted margin: Geochemical and Nd isotopic records in Neoproterozoic?-Cambrian metabasites of the Bystrzyckie and Orlickie Mountains (Sudetes, SW Poland). 2013 , 23, 1104-1121		17
1543	Dating the India Eurasia collision through arc magmatic records. Earth and Planetary Science Letters , 2013 , 366, 163-175	.3	251
1542	The geochemical consequences of mixing melts from a heterogeneous mantle. 2013 , 114, 112-143		72
1541	An empirical test of the crystal lattice strain model for rare-earth element partitioning into clinopyroxene. 2013 , 340, 139-150		2
1540	Geophysical and geochemical constraints on geoneutrino fluxes from Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2013 , 361, 356-366	.3	70
1539	Generation of adakites in a cold subduction zone due to double subducting plates. 2013 , 165, 1107-1134		207
1538	Genesis of Cenozoic low-Ca alkaline basalts in the Nanjing basaltic field, eastern China: The case for mantle xenolith-magma interaction. 2013 , 14, 1660-1677		28
1537	The Eldivan ophiolite and volcanic rocks in the °zmirAnkaraErzincan suture zone, Northern Turkey: Geochronology, whole-rock geochemical and NdBrBb isotope characteristics. 2013 , 172-173, 31-46		35
1536	A review of new interpretations of the tectonostratigraphy, geochemistry and evolution of the Onverwacht Suite, Barberton Greenstone Belt, South Africa. 2013 , 23, 403-428		63
1535	Melting during late-stage rifting in Afar is hot and deep. 2013 , 499, 70-3		67
1534	Geochemistry and petrology of the Kermanshah ophiolites (Iran): Implication for the interaction between passive rifting, oceanic accretion, and OIB-type components in the Southern Neo-Tethys Ocean. 2013 , 24, 392-411		93
1533	The composition of the foundered complement to the continental crust and a re-evaluation of fluxes in arcs. <i>Earth and Planetary Science Letters</i> , 2013 , 371-372, 177-190	.3	65
1532	Small effect of water on upper-mantle rheology based on silicon self-diffusion coefficients. 2013 , 498, 213-5		123

1531	Geochemical evolution of basaltic volcanism within the tertiary basins of southeastern Korea and the opening of the East Sea (Sea of Japan). 2013 , 249, 109-122	21
1530	Chemical heterogeneity in the Hawaiian mantle plume from the alteration and dehydration of recycled oceanic crust. <i>Earth and Planetary Science Letters</i> , 2013 , 361, 298-309	63
1529	Melt inclusions in olivine and plagioclase phenocrysts from Antarctic Phoenix Ridge basalts: Implications for origins of N- and E-type MORB parent magmas. 2013 , 253, 75-86	5
1528	Alkaline and Carbonate-rich Melt Metasomatism and Melting of Subcontinental Lithospheric Mantle: Evidence from Mantle Xenoliths, NE Bavaria, Bohemian Massif. 2013 , 54, 2597-2633	55
1527	Redox heterogeneity in mid-ocean ridge basalts as a function of mantle source. 2013 , 340, 1314-7	61
1526	Pan-African (intraplate and subduction-related?) metasomatism in the Fawakhir ophiolitic serpentinites, Central Eastern Desert of Egypt: mineralogical and geochemical evidences. 2013 , 6, 13-33	18
1525	The Processes of Melt Differentiation in Arc Volcanic Rocks: Insights from OIB-type Arc Magmas in the Central Mexican Volcanic Belt. 2013 , 54, 665-701	38
1524	A post-collision slab-breakoff model for the orgin of the Middle Eocene magmatic rocks of the ArmutluAlmac—k belt, NW Turkey and its regional implications. 2013 , 372, 107-139	21
1523	Studying the Earth with Geoneutrinos. 2013 , 2013, 1-16	16
1522	Influence of igneous processes and serpentinization on geochemistry of the Logatchev Massif harzburgites (14°45?N, Mid-Atlantic Ridge), and comparison with global abyssal peridotites. 2013 , 55, 115-130	5
1521	147Sm-143Nd systematics of Earth are inconsistent with a superchondritic Sm/Nd ratio. 2013 , 110, 4929-34	27
1520	The 1874¶876 volcano-tectonic episode at Askja, North Iceland: Lateral flow revisited. 2013 , 14, 2286-2309	57
1519	Boron and other trace element constraints on the slab-derived component in Quaternary volcanic rocks from the Southern Volcanic Zone of the Andes. 2013 , 47, 185-199	8
1518	Ta'u and Ofu/Olosega volcanoes: The II win Sisters of Samoa, their P, T, X melting regime, and global implications. 2014 , 15, 2301-2318	18
1517	. 2014,	5
1516	Foreland Magmatism during the Arabia Eurasia Collision: Pliocene Quaternary Activity of the Karacada IV olcanic Complex, SW Turkey. 2014 , 55, 1753-1777	23
1515	Melt mixing causes negative correlation of trace element enrichment and CO2 content prior to an Icelandic eruption. <i>Earth and Planetary Science Letters</i> , 2014 , 400, 272-283	29
1514	No effect of water on oxygen self-diffusion rate in forsterite. 2014 , 119, 7598-7606	23

1513	Geochemical and Planetary Dynamical Views on the Origin of Earth's Atmosphere and Oceans. 2014 , 1-35	16	
1512	Origin of the Chost Plagioclase Gignature in Galapagos Melt Inclusions: New Evidence from Pb Isotopes. 2014 , 55, 2193-2216	16	
1511	Evolution of late Cenozoic magmatism and the crustfhantle structure in the NE Japan Arc. 2014 , 385, 335-387	41	
1510	Short Length Scale Oxygen Isotope Heterogeneity in the Icelandic Mantle: Evidence from Plagioclase Compositional Zones. 2014 , 55, 2537-2566	15	
1509	Temporal variations in the influence of the subducting slab on Central Andean arc magmas: Evidence from boron isotope systematics. <i>Earth and Planetary Science Letters</i> , 2014 , 408, 390-401	25	
1508	Chalcophile behavior of thallium during MORB melting and implications for the sulfur content of the mantle. 2014 , 15, 4905-4919	40	
1507	Assessment of relative Ti, Ta, and Nb (TITAN) enrichments in ocean island basalts. 2014 , 15, 4424-4444	13	
1506	Constraints on Crustal Heat Production from Heat Flow Data. 2014 , 53-73	15	
1505	Origin of Basalts in a Hot Subduction Setting: Petrological and Geochemical Insights from Mt. Baker, Northern Cascade Arc. 2014 , 55, 241-281	22	
1504	Reprint of Magmatism, structure and age of Dove Basin (Antarctica): A key to understanding South Scotia Arc development 2014 , 123, 249-268	8	
1503	Contrasting partition behavior of F and Cl during hydrous mantle melting: implications for Cl/F signature in arc magmas. 2014 , 1,	31	
1502	Pyroxenes as tracers of mantle water variations. 2014 , 119, 1851-1881	91	
1501	Formation and Evolution of Oceanic Lithosphere: New Insights on Crustal Structure and Igneous Geochemistry from ODP/IODP Sites 1256, U1309, and U1415. 2014 , 449-505	7	
1500	Volatile (F and Cl) concentrations in Iwate olivine-hosted melt inclusions indicating low-temperature subduction. 2014 , 66, 81	24	
1499	Crystal Storage and Transfer in Basaltic Systems: the Skuggafjll Eruption, Iceland. 2014 , 55, 2311-2346	45	
1498	Evolution of volatile species in the earth mantle: A view from xenology. 2014 , 136, 229-246	13	
1497	Quantification of the elemental incompatibility sequence, and composition of the BuperchondriticImantle. 2014 , 369, 12-21	7	
1496	Petrogenesis of a Late Carboniferous mafic dikegranitoid association in the western Tianshan: Response to the geodynamics of oceanic subduction. 2014 , 202-203, 85-99	48	

1495	A relatively reduced Hadean continental crust and implications for the early atmosphere and crustal rheology. <i>Earth and Planetary Science Letters</i> , 2014 , 393, 210-219	.3	64
1494	Phenocryst HeAr isotopic and whole-rock geochemical constraints on the origin of crustal components in the mantle source of Cenozoic continental basalt in eastern China. 2014 , 272, 99-110		15
1493	Hafnium isotope evidence for slab melt contributions in the Central Mexican Volcanic Belt and implications for slab melting in hot and cold slab arcs. 2014 , 377, 45-55		32
1492	Geochemistry and geochronology of mafic rocks from the Vespor suite in the Juruena arc, Roosevelt-Juruena terrain, Brazil: Implications for Proterozoic crustal growth and geodynamic setting of the SW Amazonian craton. 2014 , 53, 20-49		18
1491	Helium isotope systematics in the vicinity of the Azores triple junction: Constraints on the Azores geodynamics. 2014 , 372, 62-71		12
1490	Partial melting control of water contents in the Cenozoic lithospheric mantle of the Cathaysia block of South China. 2014 , 380, 7-19		44
1489	Seamounts off the West Antarctic margin: A case for non-hotspot driven intraplate volcanism. 2014 , 25, 1660-1679		34
1488	On the Causes of Electrical Conductivity Anomalies in Tectonically Stable Lithosphere. 2014 , 35, 219-257		116
1487	Geophysical and geochemical evidence for deep temperature variations beneath mid-ocean ridges. 2014 , 344, 80-3		125
1486	Geochemical nature and age of the plagiogranite-gabbronorite association of the oceanic core complex of the Mid-Atlantic ridge at 5°10?S. 2014 , 22, 109-127		9
1485	Geochronology, geochemistry, and mineralization of the granodiorite porphyry hosting the Matou CuMo (–´W) deposit, Lower Yangtze River metallogenic belt, eastern China. 2014 , 79, 623-640		38
1484	Mantle wedge metasomatism revealed by Li isotopes in orogenic lamprophyres. 2014 , 196-197, 14-26		19
1483	Contrasting petrogenesis of MgR and FeR granitoids and implications for post-collisional magmatism: Case study from the Late-Archean Matok pluton (Pietersburg block, South Africa). 2014 , 196-197, 131-149		67
1482	Geochemical fingerprints of Late Triassic calc-alkaline lamprophyres from the Eastern Pontides, NE Turkey: A key to understanding lamprophyre formation in a subduction-related environment. 2014 , 196-197, 181-197		55
1481	Petrology and geochemistry of mafic magmatic rocks from the Sarve-Abad ophiolites (Kurdistan region, Iran): Evidence for interaction between MORB-type asthenosphere and OIB-type components in the southern Neo-Tethys Ocean. 2014 , 621, 132-147		50
1480	The role of subduction channel mlanges and convergent subduction systems in the petrogenesis of post-collisional K-rich mafic magmatism in NW Tibet. 2014 , 198-199, 184-201		39
1479	Early Paleozoic crustmantle interaction and lithosphere delamination in South China Block: Evidence from geochronology, geochemistry, and SrNdHf isotopes of granites. 2014 , 184-187, 416-435		78
1478	An assessment of subsolidus re-equilibration on REE distribution among mantle minerals olivine, orthopyroxene, clinopyroxene, and garnet in peridotites. 2014 , 372, 80-91		72

1477	Geochemical variations in the Central Southern Volcanic Zone, Chile (38월3°S): The role of fluids in generating arc magmas. 2014 , 371, 27-45		43	
1476	Why Archaean TTG cannot be generated by MORB melting in subduction zones. 2014 , 198-199, 1-13		182	
1475	Subduction-modified oceanic crust mixed with a depleted mantle reservoir in the sources of the Karoo continental flood basalt province. <i>Earth and Planetary Science Letters</i> , 2014 , 394, 229-241	5.3	38	
1474	Vanadium isotopic difference between the silicate Earth and meteorites. <i>Earth and Planetary Science Letters</i> , 2014 , 389, 167-175	5.3	32	
1473	Geochemical and lithostratigraphic constraints on the formation of pillow-dominated tindars from Undirhlear quarry, Reykjanes Peninsula, southwest Iceland. 2014 , 200-201, 317-333		9	
1472	How important is the role of crystal fractionation in making intermediate magmas? Insights from Zr and P systematics. <i>Earth and Planetary Science Letters</i> , 2014 , 393, 266-274	5.3	225	
1471	Behaviour of subducted water and its role in magma genesis in the NE Japan arc: A combined geophysical and geochemical approach. 2014 , 143, 165-188		40	
1470	Continental rift and oceanic protoliths of maficultramafic rocks from the Kechros Complex, NE Rhodope (Greece): implications from petrography, major and trace-element systematics, and MELTS modeling. 2014 , 103, 981-1003		5	
1469	Genesis of the 1.21 Ga Marnda Moorn large igneous province by plumeIIthosphere interaction. 2014 , 241, 85-103		41	
1468	Petrology of the Guenfalabo ring-complex: An example of a complete series along the Cameroon Volcanic Line (CVL), Cameroon. 2014 , 96, 139-154		1	
1467	The Global Systematics of Ocean Ridge Basalts and their Origin. 2014 , 55, 1051-1082		77	
1466	Melt generation beneath Arctic Ridges: Implications from U decay series disequilibria in the Mohns, Knipovich, and Gakkel Ridges. 2014 , 127, 140-170		17	
1465	Mapping modern CO2 fluxes and mantle carbon content all along the mid-ocean ridge system. <i>Earth and Planetary Science Letters</i> , 2014 , 387, 229-239	5.3	24	
1464	High-pressure Reactive Melt Stagnation Recorded in Abyssal Pyroxenites from the Ultraslow-spreading Lena Trough, Arctic Ocean. 2014 , 55, 427-458		13	
1463	Partitioning of copper between olivine, orthopyroxene, clinopyroxene, spinel, garnet and silicate melts at upper mantle conditions. 2014 , 125, 1-22		56	
1462	Combined thermodynamic geochemical modeling in metamorphic geology: Boron as tracer of fluid Eock interaction. 2014 , 208-209, 393-414		54	
1461	Tracking flux melting and melt percolation in supra-subduction peridotites (Josephine ophiolite, USA). 2014 , 168, 1		33	
1460	Ulkan-Dzhugdzhur ore-bearing anorthosite-rapakivi granite-peralkaline granite association, Siberian Craton: Age, tectonic setting, sources, and metallogeny. 2014 , 56, 257-280		16	

1459	What coupled cerium and neodymium isotopes tell us about the deep source of oceanic carbonatites. <i>Earth and Planetary Science Letters</i> , 2014 , 407, 175-186	5.3	24
1458	Earth's Uranium and Thorium content and geoneutrinos fluxes based on enstatite chondrites. <i>Earth and Planetary Science Letters</i> , 2014 , 407, 1-8	5.3	15
1457	Paleoarchean ocean crust and mantle excavated by meteor impact: Insight into early crustal processes and tectonics. 2014 , 42, 635-638		6
1456	The Composition of Hydrous Partial Melts of Garnet Peridotite at 6 GPa: Implications for the Origin of Group II Kimberlites. 2014 , 55, 2097-2124		23
1455	Calculation of water-bearing primary basalt and estimation of source mantle conditions beneath arcs: PRIMACALC2 model for WINDOWS. 2014 , 15, 1494-1514		37
1454	Constraints on the composition, source and petrogenesis of plagioclase-bearing mantle peridotite. 2014 , 138, 89-101		12
1453	Subduction-related enrichment of the Neapolitan volcanoes (Southern Italy) mantle source: New constraints on the characteristics of the slab-derived components. 2014 , 386, 165-183		40
1452	Magmatism, structure and age of Dove Basin (Antarctica): A key to understanding South Scotia Arc development. 2014 , 122, 50-69		20
1451	Mantle flow and multistage melting beneath the Galpagos hotspot revealed by seismic imaging. 2014 , 7, 151-156		51
1450	Repeated kimberlite magmatism beneath Yakutia and its relationship to Siberian flood volcanism: Insights from in situ UPb and SrNd perovskite isotope analysis. <i>Earth and Planetary Science Letters</i> , 2014 , 404, 283-295	5.3	72
1449	CO2-induced small water solubility in olivine and implications for properties of the shallow mantle. <i>Earth and Planetary Science Letters</i> , 2014 , 403, 37-47	5.3	31
1448	Petrology of Quaternary volcanic rocks and related plutonic xenoliths from Glck volcano, Isparta Angle, Turkey: Origin and evolution of the high-K alkaline series. 2014 , 92, 53-76		27
1447	Mantle transition zone structure beneath India and Western China from migration of PP and SS precursors. 2014 , 197, 396-413		19
1446	Formation of gabbronorites in the Purang ophiolite (SW Tibet) through melting of hydrothermally altered mantle along a detachment fault. 2014 , 205, 127-141		56
1445	Abiogenic Fischer Tropsch synthesis of methane at the Baogutu reduced porphyry copper deposit, western Junggar, NW-China. 2014 , 141, 179-198		44
1444	10Be, 18O and radiogenic isotopic constraints on the origin of adakitic signatures: a case study from Solander and Little Solander Islands, New Zealand. 2014 , 168, 1		2
1443	Trace element mass balance in hydrous adiabatic mantle melting: The Hydrous Adiabatic Mantle Melting Simulator version 1 (HAMMS1). 2014 , 15, 2467-2493		19
1442	Geochemistry of the Palaeoproterozoic gabbros and granodiorites of the Saza area in the Lupa Goldfield, southwestern Tanzania. 2014 , 100, 401-408		11

(2014-2014)

1441	implications for the composition and evolution of the depleted upper mantle. <i>Earth and Planetary Science Letters</i> , 2014 , 403, 178-187	.3	55	
1440	Experimental derivation of nepheline syenite and phonolite liquids by partial melting of upper mantle peridotites. <i>Earth and Planetary Science Letters</i> , 2014 , 404, 319-331	.3	41	
1439	Geochemical and Sr-Nd isotopic evidence for origin and evolution of the Miocene Pangeon granitoids, Southern Rhodope, Greece. 2014 , 56, 622-652		1	
1438	Jurassic plume-origin ophiolites in Japan: accreted fragments of oceanic plateaus. 2014 , 168, 1		30	
1437	Origin and significance of poikilitic and mosaic peridotite xenoliths in the western Pannonian Basin: geochemical and petrological evidences. 2014 , 168, 1		14	
1436	Evolution and genesis of volcanic rocks from Mutnovsky Volcano, Kamchatka. 2014 , 286, 116-137		14	
1435	North Atlantic magmatism controlled by temperature, mantle composition and buoyancy. 2014 , 7, 820-82	24	40	
1434	Variations in melting dynamics and mantle compositions along the Eastern Volcanic Zone of the Gakkel Ridge: insights from olivine-hosted melt inclusions. 2014 , 167, 1		38	
1433	Ultramafic xenoliths from Damaping (Hannuoba region, NE-China): Petrogenetic implications from crystal chemistry of pyroxenes, olivine and Cr-spinel and trace element content of clinopyroxene. 2014 , 188, 3-14		24	
1432	Diverse magmatic effects of subducting a hot slab in SW Japan: Results from forward modeling. 2014 , 15, 691-739		56	
1431	Volatiles in Earth's Mantle. 2014 , 355-391		16	
1430	Petrology and geochemistry of plutonic rocks in the Northwest Pacific Ocean and their geodynamic interpretation. 2014 , 52, 179-196		3	
1429	Mesoproterozoic orangeites (Kimberlites II) of West Karelia: Mineralogy, geochemistry, and Sr-Nd isotope composition. 2014 , 22, 151-183		25	
1428	Thermodynamic modelling of Sol Hamed serpentinite, South Eastern Desert of Egypt: Implication for fluid interaction in the Arabian Nubian Shield ophiolites. 2014 , 99, 7-23		23	
1427	Formation of the Troodos Ophiolite at a triple junction: Evidence from trace elements in volcanic glass. 2014 , 386, 66-79		40	
1426	Experimental study of trace element release during ultrahigh-pressure serpentinite dehydration. Earth and Planetary Science Letters, 2014 , 391, 296-306	.3	34	
1425	Chlorine stable isotope variations across the Quaternary volcanic arc of Ecuador. <i>Earth and Planetary Science Letters</i> , 2014 , 396, 22-33	.3	25	
1424	Increased mantle heat flow with on-going rifting of the West Antarctic rift system inferred from characterisation of plagioclase peridotite in the shallow Antarctic mantle. 2014 , 190-191, 173-190		18	

1423	The nature of Earth's building blocks as revealed by calcium isotopes. <i>Earth and Planetary Science Letters</i> , 2014 , 394, 135-145	5.3	101
1422	Melting and metasomatism in the lithospheric mantle of NE Spain: Geochemical and SrNd isotopic characteristics. 2014 , 366, 75-89		4
1421	The Mount Manengouba, a complex volcano of the Cameroon Line: Volcanic history, petrological and geochemical features. 2014 , 97, 297-321		17
1420	Sulfur isotope budget (32S, 33S, 34S and 36S) in PacificAntarctic ridge basalts: A record of mantle source heterogeneity and hydrothermal sulfide assimilation. 2014 , 133, 47-67		75
1419	U P b ages and trace elements of metamorphic rutile from ultrahigh-pressure quartzite in the Sulu orogen. 2014 , 143, 87-114		23
1418	Percolation of enriched melts during incremental open-system melting in the spinel field: A REE approach to abyssal peridotites from the Southwest Indian Ridge. 2014 , 127, 190-203		29
1417	Reconstructing the deep CO2 degassing behaviour of large basaltic fissure eruptions. <i>Earth and Planetary Science Letters</i> , 2014 , 393, 120-131	5.3	115
1416	The Dupal isotopic anomaly in the southern Paleo-Asian Ocean: NdPb isotope evidence from ophiolites in Northwest China. 2014 , 189, 185-200		38
1415	Vestiges of the proto-Caribbean seaway: Origin of the San Souci Volcanic Group, Trinidad. 2014 , 626, 170-185		7
1414	The Neoproterozoic evolution of the central-eastern Bayuda Desert (Sudan). 2014 , 240, 108-125		18
1413	On the magmatic record of the Makran arc, southeastern Iran: Insights from zircon U-Pb geochronology and bulk-rock geochemistry. 2014 , 15, 2151-2169		35
1412	The geochemistry and petrogenesis of the Paleoproterozoic du Chef dyke swarm, Qubec, Canada. 2014 , 250, 151-166		12
1411	Petrology and SmMd dating of the Genina Gharbia Alaskan-type complex (Egypt): Insights into deep levels of Neoproterozoic island arcs. 2014 , 198-199, 263-280		39
1410	Subcontinental rift initiation and ocean-continent transitional setting of the Dinarides and Vardar zone: Evidence from the Krivajakonjuh Massif, Bosnia and Herzegovina. 2014 , 202-203, 283-299		6
1409	A Record of Paleoproterozoic Subduction Preserved in the Northern Slave Cratonic Mantle: SrBbD Isotope and Trace-element Investigations of Eclogite Xenoliths from the Jericho and Muskox Kimberlites. 2014 , 55, 549-583		34
1408	Isotopically ultradepleted domains in the convecting upper mantle: Implications for MORB petrogenesis. 2014 , 42, 203-206		49
1407	Enriched lithospheric mantle keel below the Scottish margin of the North Atlantic Craton: Evidence from the Palaeoproterozoic Scourie Dyke Swarm and mantle xenoliths. 2014 , 250, 97-126		35
1406	Continental subduction recorded by Neoproterozoic eclogite and garnet amphibolites from Western Hoggar (Tassendjanet terrane, Tuareg Shield, Algeria). 2014 , 247, 139-158		35

(2015-2014)

1405	The distribution of H2O between silicate melt and nominally anhydrous peridotite and the onset of hydrous melting in the deep upper mantle. <i>Earth and Planetary Science Letters</i> , 2014 , 400, 1-13	67	
1404	Isotope geochemistry of Jeongok basalts, northernmost South Korea: Implications for the enriched mantle end-member component. 2014 , 91, 56-68	15	
1403	The protracted development of focused magmatic intrusion during continental rifting. 2014, 33, 875-897	38	
1402	Numerical modeling of trace element transportation in subduction zones: implications for geofluid processes. 2014 , 66, 26	34	
1401	Isotope and trace element insights into heterogeneity of subridge mantle. 2014 , 15, 2438-2453	37	
1400	Patterns in Galpagos Magmatism Arising from the Upper Mantle Dynamics of Plume-Ridge Interaction. 2014 , 245-261	7	
1399	Deep water recycling through time. 2014 , 15, 4203-4216	45	
1398	Elemental transport upon hydration of basic schists during regional metamorphism: Geochemical evidence from the Sanbagawa metamorphic belt, Japan. 2014 , 48, 29-49	18	
1397	Regional mantle heterogeneity regulates melt production along the Runion hotspot-influenced Central Indian Ridge. 2014 , 48, 433-449	8	
1396	Evidence for a broadly distributed Samoan-plume signature in the northern Lau and North Fiji Basins. 2014 , 15, 986-1008	24	
1395	Spin crossover in Fe2SiO4 liquid at high pressure. 2014 , 41, 4512-4518	24	
1394	Redox-variability and controls in subduction zones from an iron-isotope perspective. <i>Earth and Planetary Science Letters</i> , 2015 , 432, 142-151	55	
1393	Compositional mantle layering revealed by slab stagnation at ~1000-km depth. 2015 , 1, e1500815	93	
1392	The behavior and concentration of CO2 in the suboceanic mantle: Inferences from undegassed ocean ridge and ocean island basalts. 2015 , 236-237, 338-351	53	
1391	Recycled oceanic crust and marine sediment in the source of alkali basalts in Shandong, eastern China: Evidence from magma water content and oxygen isotopes. 2015 , 120, 8281-8303	33	
1390	Tectonic, magmatic, and metallogenic evolution of the Late Cretaceous arc in the Carpathian-Balkan orogen. 2015 , 34, 1813-1836	61	
1389	Melting systematics in mid-ocean ridge basalts: Application of a plagioclase-spinel melting model to global variations in major element chemistry and crustal thickness. 2015 , 120, 4863-4886	33	
1388	Early Differentiation and Its Long-Term Consequences for Earth Evolution. 2015 , 143-172	7	

1387	Permian back-arc extension in central Inner Mongolia, NE China: Elemental and Srtld	15
1386	Growing magma chambers control the distribution of small-scale flood basalts. 2015 , 5, 16824	13
1385	Magmatic plumbing at Lucky Strike volcano based on olivine-hosted melt inclusion compositions. 2015 , 16, 126-147	24
1384	Ancient Melting Residual Peridotites Producing Variable Source Mantle beneath Mid-ocean Ridges: Detection and Geodynamic Implications. 2015 , 124, 333-354	3
1383	Early Mesozoic lamproites and monzonitoids of southeastern Gorny Altai: geochemistry, SrNd isotope composition, and sources of melts. 2015 , 56, 825-843	9
1382	OH solubility in olivine in the peridotite IOH system under reducing conditions and implications for water storage and hydrous melting in the reducing upper mantle. <i>Earth and Planetary Science Letters</i> , 2015 , 432, 199-209	17
1381	What processes control the chemical compositions of arc front stratovolcanoes?. 2015 , 16, 1865-1893	65
1380	Characterization and Petrological Constraints of the Midlithospheric Discontinuity. 2015 , 16, 3484-3504	73
1379	Geochronology and Geochemistry of Mafic Rocks in the Xuhe, Shaanxi, China: Implications for Petrogenesis and Mantle Dynamics. 2015 , 89, 187-202	16
1378	Deeply dredged submarine HIMU glasses from the Tuvalu Islands, Polynesia: Implications for volatile budgets of recycled oceanic crust. 2015 , 16, 3210-3234	18
1377	Water in Hawaiian peridotite minerals: A case for a dry metasomatized oceanic mantle lithosphere. 2015 , 16, 1211-1232	46
1376	The distributions of two mantle sources based on the Sr-Nd isotopic compositions of late Cenozoic volcanic rocks from the northern Fossa Magna, central Japan. 2015 , 44, 301-322	1
1375	. 2015,	3
1374	The Panzhihua Intrusion, SW China. 2015 , 435-463	1
1373	Depleted Mantle-sourced CFB Magmatism in the Jurassic Africal Intarctica Rift: Petrology and 40Ar/39Ar and U/Pb Chronology of the Vestfjella Dyke Swarm, Dronning Maud Land, Antarctica. 2015 , 56, 919-952	28
1372	Mantle refertilization and magmatism in old orogenic regions: The role of late-orogenic pyroxenites. 2015 , 232, 49-75	20
1371	Quantification of the CO2 budget and H2OCO2 systematics in subduction-zone magmas through the experimental hydration of melt inclusions in olivine at high H2O pressure. <i>Earth and Planetary Science Letters</i> , 2015 , 425, 1-11	62
1370	Petrogenesis of mafic collision zone magmatism: The Armenian sector of the Turkishlanian Plateau. 2015 , 403, 24-41	58

1369	MORB differentiation: In situ crystallization in replenished-tapped magma chambers. 2015 , 158, 147-161	40
1368	Compositional diversity in peridotites as result of a multi-process history: The Pacific-derived Santa Elena ophiolite, northwest Costa Rica. 2015 , 231, 16-34	14
1367	Post-collisional high-K calc-alkaline volcanism in Tengchong volcanic field, SE Tibet: constraints on Indian eastward subduction and slab detachment. 2015 , 172, 624-640	29
1366	Mineralogical and Geochemical Constraints on the Origin of the Ultramafic Rocks from Wuwamen Ophiolite at the Southern Margin of Middle Tianshan, Xinjiang. 2015 , 89, 70-71	6
1365	Geochemistry of the mantle source and magma feeding system beneath Turrialba volcano, Costa Rica. 2015 , 232, 319-335	27
1364	A melt-focusing zone in the lithospheric mantle preserved in the Santa Elena Ophiolite, Costa Rica. 2015 , 230, 189-205	15
1363	Across-arc Variations in Geochemistry of Oligocene to Quaternary Basalts from the NE Japan Arc: Constraints on Source Composition, Mantle Melting and Slab Input Composition. 2015 , 56, 2257-2297	14
1362	Magmas Erupted during the Main Pulse of Siberian Traps Volcanism were Volatile-poor. 2015 , 56, 2089-2116	16
1361	Helium isotopic evidence for modification of the cratonic lithosphere during the Permo-Triassic Siberian flood basalt event. 2015 , 216-217, 73-80	21
1360	The effect of primary versus secondary processes on the volatile content of MORB glasses: An example from the equatorial Mid-Atlantic Ridge (5°NB°S). 2015 , 120, 125-144	48
1359	Temporal and spatial variations in provenance of Eastern Mediterranean Sea sediments: Implications for Aegean and Aeolian arc volcanism. 2015 , 153, 149-168	59
1358	Water in Hawaiian garnet pyroxenites: Implications for water heterogeneity in the mantle. 2015 , 397, 61-75	55
1357	SmNd and RbNr isotope geochemistry and petrology of Abu Hamamid intrusion, Eastern Desert, Egypt: An Alaskan-type complex in a backarc setting. 2015 , 258, 234-246	34
1356	Geochemistry and petrogenesis of volcanic rocks from Daimao Seamount (South China Sea) and their tectonic implications. 2015 , 218-219, 117-126	47
1355	The source of Proterozoic anorthosite and rapakivi granite magmatism: evidence from combined in situ HfD isotopes of zircon in the Ahvenisto complex, southeastern Finland. 2015 , 172, 103-112	24
1354	Changing recycled oceanic components in the mantle source of the Shuangliao Cenozoic basalts, NE China: New constraints from water content. 2015 , 650, 113-123	46
1353	Thermal and chemical evolution of the subarc mantle revealed by spinel-hosted melt inclusions in boninite from the Ogasawara (Bonin) Archipelago, Japan. 2015 , 43, 151-154	29
1352	Neoproterozoic continental arc volcanism at the northern edge of the Arabian Plate, SE Turkey. 2015 , 258, 208-233	41

1351	Ocean Basalt Simulator version 1 (OBS1): Trace element mass balance in adiabatic melting of a pyroxenite-bearing peridotite. 2015 , 16, 267-300		32
1350	Petrogenesis of the Rifted Southern Victoria Land Lithospheric Mantle, Antarctica, Inferred from Petrography, Geochemistry, Thermobarometry and Oxybarometry of Peridotite and Pyroxenite Xenoliths from the Mount Morning Eruptive Centre. 2015 , 56, 193-226		26
1349	Peridotite-basalt association at MAR between 19°42? and 19°59? N: Evaluation of petrogenetic conditions and material balance during hydrothermal transformation of the oceanic crust. 2015 , 23, 1-21		7
1348	Experimental determination of C, F, and H partitioning between mantle minerals and carbonated basalt, CO2/Ba and CO2/Nb systematics of partial melting, and the CO2 contents of basaltic source regions. <i>Earth and Planetary Science Letters</i> , 2015 , 412, 77-87	3	119
1347	Petrogenesis of Late Cenozoic basalts from North Hainan Island: Constraints from melt inclusions and their host olivines. 2015 , 152, 89-121		39
1346	Serpentinization and Deserpentinization Reactions in the Upper Mantle beneath Fuerteventura Revealed by Peridotite Xenoliths with Fibrous Orthopyroxene and Mottled Olivine. 2015 , 56, 3-31		9
1345	Multiple sulfur isotope composition of oxidized Samoan melts and the implications of a sulfur isotope shantle array(In chemical geodynamics. <i>Earth and Planetary Science Letters</i> , 2015 , 417, 28-39	3	52
1344	The Tertiary dike magmatism in the Southern Alps: geochronological data and geodynamic significance. 2015 , 104, 449-473		27
1343	Composition, melting and evolution of the upper mantle beneath the Jurassic Pindos ocean inferred by ophiolitic ultramafic rocks in East Othris, Greece. 2015 , 104, 1185-1207		20
1342	Selective ingress of a Samoan plume component into the northern Lau backarc basin. 2015 , 6, 6554		13
1341	Geo-neutrinos and Earth Models. 2015, 61, 310-318		19
1340	Rescue of long-tail data from the ocean bottom to the Moon: IEDA Data Rescue Mini-Awards. 2015 , 6, 108-114		3
1339	The Magmatic Architecture of Taney Seamount-A, NE Pacific Ocean. 2015 , 56, 1037-1067		12
1338	Low-3He/4He sublithospheric mantle source for the most magnesian magmas of the Karoo large igneous province. <i>Earth and Planetary Science Letters</i> , 2015 , 426, 305-315	3	13
1337	Petit-spot geology reveals melts in upper-most asthenosphere dragged by lithosphere. <i>Earth and Planetary Science Letters</i> , 2015 , 426, 267-279	3	29
1336	Two types of the crust-mantle interaction in continental subduction zones. 2015 , 58, 1269-1283		42
1335	The effects of composition and temperature on chalcophile and lithophile element partitioning into magmatic sulphides. <i>Earth and Planetary Science Letters</i> , 2015 , 424, 280-294	3	81
1334	Tracing the ingredients for a habitable earth from interstellar space through planet formation. 2015 , 112, 8965-70		97

1333	The nitrogen budget of Earth. 2015 , 148, 150-173	104
1332	Temperatures, Heat, and Energy in the Mantle of the Earth. 2015 , 223-270	43
1331	Evolution of Mojavian mantle lithosphere influenced by Farallon plate subduction: Evidence from Hf and Nd isotopes in peridotite xenoliths from Dish Hill, CA. 2015 , 159, 264-284	8
1330	Water Content and Oxygen Isotopic Composition of Alkali Basalts from the Taihang Mountains, China: Recycled Oceanic Components in the Mantle Source. 2015 , 56, 681-702	51
1329	Slab melting beneath the Cascade Arc driven by dehydration of altered oceanic peridotite. 2015 , 8, 404-408	72
1328	Mantle peridotite in newly discovered far-inland subduction complex, southwest Arizona: initial report. 2015 , 57, 871-892	14
1327	Geochemical variations in Japan Sea back-arc basin basalts formed by high-temperature adiabatic melting of mantle metasomatized by sediment subduction components. 2015 , 16, 1324-1347	37
1326	Seeing through the Effects of Crustal Assimilation to Assess the Source Composition beneath the Southern Lesser Antilles Arc. 2015 , 56, 815-844	18
1325	The Role of Subducted Basalt in the Source of Island Arc Magmas: Evidence from Seafloor Lavas of the Western Aleutians. 2015 , 56, 441-492	71
1324	Chemical Geodynamics in a Non-chondritic Earth. 2015 , 329-366	2
1323	Petrogenesis of the Early Permian volcanic rocks in the Chinese South Tianshan: Implications for crustal growth in the Central Asian Orogenic Belt. 2015 , 228-229, 23-42	31
1322	Melt inclusion evidence for CO2-rich melts beneath the western branch of the East African Rift: implications for long-term storage of volatiles in the deep lithospheric mantle. 2015 , 169, 1	27
1321	The electrical structure of the central Pacific upper mantle constrained by the NoMelt experiment. 2015 , 16, 1115-1132	52
1320	Major and trace elements of abyssal peridotites: evidence for melt refertilization beneath the ultraslow-spreading Southwest Indian Ridge (53° E segment). 2015 , 57, 1715-1734	15
1319	The Interplay between Melting, Refertilization and Carbonatite Metasomatism in Off-Cratonic Lithospheric Mantle under Zealandia: an Integrated Major, Trace and Platinum Group Element Study. 2015 , 56, 563-604	41
1318	Generations of Melt Extraction, Melt R ock Interaction and High-Temperature Metasomatism Preserved in Peridotites of the ~497 Ma Leka Ophiolite Complex, Norway. 2015 , 56, 1797-1828	29
1317	Across and along arc geochemical variations in altered volcanic rocks: Evidence from mineral chemistry of Jurassic lavas in northern Chile, and tectonic implications. 2015 , 239, 97-113	13
1316	Isotopes, DUPAL, LLSVPs, and Anekantavada. 2015 , 419, 10-28	72

1315	Petrological Evolution of the Magmatic Suite Associated with the Coroccohuayco Cu(Aufle) PorphyryBkarn Deposit, Peru. 2015 , 56, 1829-1862	19
1314	Generation of ca. 900B70Ma bimodal rifting volcanism along the southwestern margin of the Tarim Craton and its implications for the Tarim North China connection in the early Neoproterozoic. 2015 , 113, 610-625	29
1313	40Ar/39Ar geochronology, geochemistry and petrology of volcanic rocks from the Simav Graben, western Turkey. 2015 , 170, 1	3
1312	Constraints on the DUPAL anomaly from helium isotope systematics in the Southwest Indian mid-ocean ridge basalts. 2015 , 417, 163-172	11
1311	Neoproterozoic active continental margin of the Cathaysia block: Evidence from geochronology, geochemistry, and NdHf isotopes of igneous complexes. 2015 , 269, 195-216	35
1310	The Early Proterozoic Matachewan Large Igneous Province: Geochemistry, Petrogenesis, and Implications for Earth Evolution. 2015 , 56, 1459-1494	28
1309	Post-collisional Ultrapotassic Mafic Magmatism in South Tibet: Products of Partial Melting of Pyroxenite in the Mantle Wedge Induced by Roll-back and Delamination of the Subducted Indian Continental Lithosphere Slab. 2015 , 56, 1365-1406	88
1308	Ultra-depleted melts in olivine-hosted melt inclusions from the Ontong Java Plateau. 2015 , 414, 124-137	17
1307	Geochemistry of the late Holocene rocks from the Tolbachik volcanic field, Kamchatka: Quantitative modelling of subduction-related open magmatic systems. 2015 , 307, 133-155	44
1306	Quaternary high-Mg ultrapotassic rocks from the Qal@h Hasan Ali maars, southeastern Iran: petrogenesis and geodynamic implications. 2015 , 170, 1	14
1305	The evolution and storage of primitive melts in the Eastern Volcanic Zone of Iceland: the 10 ka Grinsvin tephra series (i.e. the Saksunarvatn ash). 2015 , 170, 1	30
1304	Production of mildly alkaline basalts at complex ocean ridge settings: Perspectives from basalts emitted during the 2010 eruption at the Eyjafjallajkull volcano, Iceland. 2015 , 91, 51-64	1
1303	Recommended mineral-melt partition coefficients for FRTEs (Cu), Ga, and Ge during mantle melting. 2015 , 100, 2533-2544	29
1302	Melt extraction and metasomatism recorded in basal peridotites above the metamorphic sole of the northern Fizh massif, Oman ophiolite. 2015 , 650, 53-64	16
1301	The link between subduction-modified lithosphere and the giant Dexing porphyry copper deposit, South China: Constraints from high-Mg adakitic rocks. 2015 , 67, 109-126	60
1300	A numerical approach to melting in warm subduction zones. <i>Earth and Planetary Science Letters</i> , 2015 , 411, 37-44	43
1299	Sr, Nd, Pb and Hf isotopic constraints on mantle sources and crustal contaminants in the Payenia volcanic province, Argentina. 2015 , 212-215, 368-378	19
1298	Constraints on the mantle mineralogy of an ultra-slow ridge: Hafnium isotopes in abyssal peridotites and basalts from the 9\mathbb{Q}5°E Southwest Indian Ridge. Earth and Planetary Science Letters 5.3, 2015, 410, 42-53	29

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1297	porphyry Cu deposit, western Junggar. 2015 , 98, 188-197	13
1296	Temporal variation of H 2 O content in the lithospheric mantle beneath the eastern North China Craton: Implications for the destruction of cratons. 2015 , 28, 276-287	31
1295	Mesozoic Inenozoic mantle evolution beneath the North China Craton: A new perspective from Hf Indisotopes of basalts. 2015 , 27, 1574-1585	47
1294	Tectonic development from oceanic subduction to continental collision: Geochemical evidence from postcollisional mafic rocks in the Hong'an Dabie orogens. 2015 , 27, 1236-1254	50
1293	The nature and history of the Qilian Block in the context of the development of the Greater Tibetan Plateau. 2015 , 28, 209-224	84
1292	A new method of discriminating different types of post-Archean ophiolitic basalts and their tectonic significance using Th-Nb and Ce-Dy-Yb systematics. 2015 , 6, 481-501	197
1291	Gondwana margin evolution from zircon REE, O and Hf signatures of Western Province gneisses, Zealandia. 2015 , 389, 323-353	10
1290	Geochemical constraints on the contribution of Louisville seamount materials to magmagenesis in the Lau back-arc basin, SW Pacific. 2015 , 57, 978-997	7
1289	Early Permian mantledrust interaction in the south-central Altaids: High-temperature metamorphism, crustal partial melting, and mantle-derived magmatism. 2015 , 28, 371-390	17
1288	Elemental and SrNd isotopic geochemistry of the basalts and microgabbros in the Shuanggou ophiolite, SW China: implication for the evolution of the Palaeotethys Ocean. 2015 , 152, 210-224	6
1287	Geochronology and geochemistry of basaltic lavas in the Dongbo and Purang ophiolites of the Yarlung-Zangbo Suture zone: Plume-influenced continental margin-type oceanic lithosphere in southern Tibet. 2015 , 27, 701-718	52
1286	Petrogenesis of dunites from Gibbs Island, South Shetland Islands, Antarctica. 2015 , 19, 33-44	3
1285	Isotopic heterogeneity of oceanic, arc and continental basalts and its implications for mantle dynamics. 2015 , 27, 1131-1152	235
1284	Petrology of Myogazawa and Kazamiyamada volcanic rocks distributed in northern Utsunomiya, central Japan. 2016 , 45, 138-152	1
1283	Lead isotope constraints on the mantle sources involved in the genesis of Mesozoic high-Ti tholeiite dykes (Urubici type) from the SB Francisco Craton (Southern Espinhaß, Brazil). 2016 , 46, 105-122	11
1282	Hf isotope systematics of seamounts near the East Pacific Rise (EPR) and geodynamic implications. 2016 , 262, 107-119	11
1281	Subduction zone mantle enrichment by fluids and Zr⊞f-depleted crustal melts as indicated by backarc basalts of the Southern Volcanic Zone, Argentina. 2016 , 262, 135-152	24
1280	Crustal thickness anomalies in the Indian Ocean inferred from gravity analysis. 2016 , 51, 634-643	5

1279	Recycling of ancient subduction-modified mantle domains in the Purang ophiolite (southwestern Tibet). 2016 , 262, 11-26		27
1278	Oceanic mantle gravimetric response to the seafloor spreading of the Southwest Sub-basin, South China Sea. 2016 , 51, 535-547		4
1277	References. 507-594		
1276	Distribution of siderophile and chalcophile elements in serpentinites of the oceanic lithosphere as an insight into the magmatic and crustal evolution of mantle peridotites. 2016 , 54, 1019-1034		8
1275	Primary Silica-rich Picrite and High-Ca Boninite Melt Inclusions in Pyroxenite Veins from the Kamchatka Sub-arc Mantle. 2016 , 57, 1955-1982		16
1274	Quantifying Parental MORB Trace Element Compositions from the Eruptive Products of Realistic Magma Chambers: Parental EPR MORB are Depleted. 2016 , egw059		O
1273	On the chemical markers of pyroxenite contributions in continental basalts in Eastern China: Implications for source lithology and the origin of basalts. 2016 , 157, 18-31		45
1272	The behavior of Fe3+/Be during partial melting of spinel lherzolite. 2016, 185, 64-77		27
1271	Mg, Sr, and O isotope geochemistry of syenites from northwest Xinjiang, China: Tracing carbonate recycling during Tethyan oceanic subduction. 2016 , 437, 109-119		57
1270	Early mantle heterogeneities in the Runion hotspot source inferred from highly siderophile elements in cumulate xenoliths. <i>Earth and Planetary Science Letters</i> , 2016 , 448, 150-160	5.3	20
1269	Rapid Cenozoic ingrowth of isotopic signatures simulating HIMUIn ancient lithospheric mantle: Distinguishing source from process. 2016 , 187, 79-101		39
1268	Formation of Plagioclase Lherzolite and Associated DuniteHarzburgiteIlherzolite Sequences by Multiple Episodes of Melt Percolation and Melt B ock Reaction: an Example from the Trinity Ophiolite, California, USA. 2016 , 57, 815-838		30
1267	Petrological, Geochemical and SrNdD Isotopic Constraints on the Origin of Garnet and Spinel Pyroxenites from the Moldanubian Zone of the Bohemian Massif. 2016 , 57, 897-920		23
1266	The magmatic and eruptive response of arc volcanoes to deglaciation: Insights from southern Chile. 2016 , 44, 251-254		33
1265	Special Collection: Water in Nominally Hydrous and Anhydrous Minerals: Crystal/melt partitioning of water and other volatiles during the near-solidus melting of mantle peridotite: Comparisons with non-volatile incompatible elements and implications for the generation of intraplate		18
1264	magmatism. 2016 , 101, 876-888 The composition of mantle plumes and the deep Earth. <i>Earth and Planetary Science Letters</i> , 2016 , 444, 13-25	5.3	15
1263	Tracking along-arc sediment inputs to the Aleutian arc using thallium isotopes. 2016 , 181, 217-237		46
1262	Petrogenesis of high-CaO lavas from Mauna Kea, Hawaii: Constraints from trace element abundances. 2016 , 185, 198-215		11

1261	He, Ne and Ar isotope signatures of mid-ocean ridge basalts and their implications for upper mantle structure: A case study from the Mid-Atlantic Ridge at 41/2°S. 2016 , 183, 94-105		6
1260	High-alumina basalts from the Bogda Mountains suggest an arc setting for Chinese Northern Tianshan during the Late Carboniferous. 2016 , 256-257, 165-181		39
1259	The geochemistry of primitive volcanic rocks of the Ankaratra volcanic complex, and source enrichment processes in the genesis of the Cenozoic magmatism in Madagascar. 2016 , 185, 435-452		23
1258	Petrological and tectono-magmatic significance of ophiolitic basalts from the Elba Island within the Alpine Corsica-Northern Apennine system. 2016 , 110, 713-730		7
1257	Early Eocene clinoenstatite boninite and boninite-series dikes of the ophiolite of New Caledonia; a witness of slab-derived enrichment of the mantle wedge in a nascent volcanic arc. 2016 , 260, 429-442		37
1256	Experimental constraints on the fate of subducted upper continental crust beyond the depth of no return 2016 , 186, 207-225		9
1255	Chemostratigraphy of the Sudbury impact basin fill: Volatile metal loss and post-impact evolution of a submarine impact basin. 2016 , 183, 198-233		6
1254	Slab melting and magma formation beneath the southern Cascade arc. <i>Earth and Planetary Science Letters</i> , 2016 , 446, 100-112	5.3	30
1253	The water content and hydrogen isotope composition of continental lithospheric mantle and mantle-derived mafic igneous rocks in eastern China. 2016 , 59, 910-926		6
1252	Molybdenum isotope systematics in subduction zones. <i>Earth and Planetary Science Letters</i> , 2016 , 447, 95-102	5.3	48
1251	Petrogenesis and 40Ar/39Ar dating of proto-forearc crust in the Early Cretaceous Caribbean arc: The La Tinta mlange (eastern Cuba) and its easterly correlation in Hispaniola. 2016 , 58, 1020-1040		18
1250	Dating layered websterite formation in the lithospheric mantle. <i>Earth and Planetary Science Letters</i> , 2016 , 454, 103-112	5.3	9
1249	Boron isotopes reveal multiple metasomatic events in the mantle beneath the eastern North China Craton. 2016 , 194, 77-90		22
1248	Mantle metasomatism did not modify the initial H2O content in peridotite xenoliths from the Tianchang basalts of eastern China. 2016 , 260, 315-327		21
1247	Subduction-related Late Carboniferous to Early Permian Magmatism in the Eastern Pontides, the Camlik and Casurluk plutons: Insights from geochemistry, whole-rock SrNd and in situ zircon Lull isotopes, and UPb geochronology. 2016 , 266-267, 98-114		33
1246	Extreme incompatibility of helium during mantle melting: Evidence from undegassed mid-ocean ridge basalts. <i>Earth and Planetary Science Letters</i> , 2016 , 454, 192-202	5.3	14
1245	Testing a back-arc BulacogenDmodel for the Central Metasedimentary Belt of the Grenville Province. 2016 , 153, 681-695		9
1244	Neoproterozoic serpentinites from the Eastern Desert of Egypt: Insights into Neoproterozoic mantle geodynamics and processes beneath the Arabian-Nubian Shield. 2016 , 286, 213-233		30

1243	Geodynamics of paleo-Pacific plate subduction constrained by the source lithologies of Late Mesozoic basalts in southeastern China. 2016 , 43, 10,189-10,197	18
1242	Peridotite xenoliths from the Shiribeshi Seamount, Japan Sea: insights into mantle processes in a back-arc basin. 2016 , 171, 1	3
1241	The Smoothness and Shapes of Chondrite-normalized Rare Earth Element Patterns in Basalts. 2016 , 57, 1463-1508	47
1240	Morphology of seismically slow lower-mantle structures. 2016 , 207, 1122-1136	76
1239	Quantifying melt production and degassing rate at mid-ocean ridges from global mantle convection models with plate motion history. 2016 , 17, 2884-2904	16
1238	On edge melting under the Colorado Plateau margin. 2016 , 17, 2835-2854	8
1237	Encyclopedia of Geochemistry. 2016 , 1-3	
1236	Encyclopedia of Geochemistry. 2016 , 1-3	
1235	Slab mantle dehydrates beneath Kamchatka\(et recycles \) water into the deep mantle. 2016 , 17, 2987-3007	23
1234	Chemistry of the Lower Mantle. 2016 , 225-240	5
1233	Multi-stage metasomatism revealed by trace element and Li isotope distributions in minerals of peridotite xenoliths from Allgre volcano (French Massif Central). 2016 , 264, 158-174	13
1232	Subduction of fore-arc crust beneath an intra-oceanic arc: The high-P Cuaba mafic gneisess and amphibolites of the Rio San Juan Complex, Dominican Republic. 2016 , 262, 298-319	12
1231	Volatile and trace elements in alkaline and subalkaline melts of ocean islands: Evidence from inclusions in minerals and quenched glasses of rocks. 2016 , 54, 543-558	2
1230	Softening of sub-continental lithosphere prior rifting: Evidence from clinopyroxene chemistry in peridotite xenoliths from Natash volcanic province, SE Egypt. 2016 , 327, 84-98	6
1229	Melt-rock interactions and fabric development of peridotites from North Pond in the Kane area, Mid-Atlantic Ridge: Implications of microstructural and petrological analyses of peridotite samples from IODP Hole U1382A. 2016 , 17, 2298-2322	5
1228	Geochemistry of the mafic volcanic rocks of the Buzwagi gold mine in the Neoarchaean Nzega greenstone belt, northern Tanzania. 2016 , 264, 86-95	3
1227	Continental versus oceanic subduction zones. 2016 , 3, 495-519	124
1226	Negligible sulfur isotope fractionation during partial melting: Evidence from Garrett transform fault basalts, implications for the late-veneer and the hadean matte. <i>Earth and Planetary Science</i> 5.3 <i>Letters</i> , 2016 , 451, 196-207	26

1225	2016 , 17, 5056-5077	43
1224	Titanium-hydroxyl defect-controlled rheology of the Earth's upper mantle. <i>Earth and Planetary</i> Science Letters, 2016 , 452, 227-237 5.3	42
1223	Open system models of isotopic evolution in Earth silicate reservoirs: Implications for crustal growth and mantle heterogeneity. 2016 , 195, 142-157	16
1222	Evidence for a reducing Archean ambient mantle and its effects on the carbon cycle. 2016 , 44, 751-754	77
1221	Petrology and geochemistry of mantle peridotites from the Kalaymyo and Myitkyina ophiolites (Myanmar): Implications for tectonic settings. 2016 , 264, 495-508	43
1220	Geochemical evidence in the northeast Lau Basin for subduction of the Cook-Austral volcanic chain in the Tonga Trench. 2016 , 17, 1694-1724	17
1219	Encyclopedia of Marine Geosciences. 2016 , 143-144	
1218	Encyclopedia of Marine Geosciences. 2016 , 144-155	1
1217	Encyclopedia of Marine Geosciences. 2016 , 156-156	
1216	Encyclopedia of Marine Geosciences. 2016 , 156-171	
1215	Age and compositional data of zircon from sepiolite drilling mud to identify contamination of ocean drilling samples. 2016 , 17, 3512-3526	12
1214	Aqueous fluids and sedimentary melts as agents for mantle wedge metasomatism, as inferred from peridotite xenoliths at Pinatubo and Iraya volcanoes, Luzon arc, Philippines. 2016 , 262, 355-368	15
1213	Subducted lithosphere controls halogen enrichments in the Iceland mantle plume source. 2016 , 44, 679-682	23
1212	Evidence against an ancient non-chondritic mantle source for North Atlantic Igneous Province lavas. 2016 , 440, 91-100	9
1211	HfNd isotope decoupling in bulk abyssal peridotites due to serpentinization. 2016, 440, 60-72	28
1210	Origin of geochemical mantle components: Role of subduction filter. 2016 , 17, 3289-3325	35
1209	Effect of melt/mantle interactions on MORB chemistry at the easternmost Southwest Indian Ridge (61°B7°E). 2016 , 17, 4605-4640	28
1208	REEBOX PRO: A forward model simulating melting of thermally and lithologically variable upwelling mantle. 2016 , 17, 3929-3968	25

1207	Continuous supply of recycled Pacific oceanic materials in the source of Cenozoic basalts in SE China: the Zhejiang case. 2016 , 171, 1		30
1206	Modelling Earth surface topography: Decomposition of the static and dynamic components. 2016 , 261, 172-186		17
1205	Archean crustal evolution in the Southern SB Francisco craton, Brazil: Constraints from U-Pb, Lu-Hf and O isotope analyses. 2016 , 266-267, 64-86		50
1204	Post-collisional magmatism: Crustal growth not identified by zircon HfD isotopes. <i>Earth and Planetary Science Letters</i> , 2016 , 456, 182-195	5.3	109
1203	A Mantle-derived Origin for Mauritian Trachytes. 2016 , egw052		3
1202	Can mantle convection be self-regulated?. 2016 , 2, e1601168		15
1201	Refertilization Processes in the Subcontinental Lithospheric Mantle: the Record of the Beni Bousera Orogenic Peridotite (Rif Belt, Northern Morocco). 2016 , 57, 2251-2270		11
1200	Highly Siderophile Element and Os Isotope Systematics of Volcanic Rocks at Divergent and Convergent Plate Boundaries and in Intraplate Settings.		
1199	A chilled margin of komatiite and Mg-rich basaltic andesite in the western Bushveld Complex, South Africa. 2016 , 171, 1		36
1198	Spatial and Temporal Scale of Mantle Enrichment at the Endeavour Segment, Juan de Fuca Ridge. 2016 , 57, 863-896		19
1197	P- andS-wave delays caused by thermal plumes. 2016 , 206, 1169-1178		21
1196	Boninitic and tholeiitic basaltic lavas and dikes from dispersed Jurassic East Othris ophiolitic units, Greece: petrogenesis and geodynamic implications. 2016 , 58, 1983-2006		10
1195	Temporal magma source changes at Gaua volcano, Vanuatu island arc. 2016 , 322, 30-47		11
1194	Primary Magmas in Continental Arcs and their Differentiated Products: Petrology of a Post-plutonic Dyke Suite in the Tertiary Adamello Batholith (Alps). 2016 , 57, 495-534		21
1193	Three-dimensional Evolution of Melting, Heat and Melt Transfer in Ascending Mantle beneath a Fast-spreading Ridge Segment Constrained by Trace Elements in Clinopyroxene from Concordant Dunites and Host Harzburgites of the Oman Ophiolite. 2016 , 57, 777-814		24
1192	The syncollisional granitoid magmatism and continental crust growth in the West Kunlun Orogen, China Evidence from geochronology and geochemistry of the Arkarz pluton. 2016 , 245, 191-204		52
1191	Atmospheric contamination of the primary Ne and Ar signal in mid-ocean ridge basalts and its implications for ocean crust formation. 2016 , 172, 306-321		13
1190	Origin of the DUPAL anomaly in mantle xenoliths of Patagonia (Argentina) and geodynamic consequences. 2016 , 248-251, 257-271		8

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1189	Multiple episodes of partial melting, depletion, metasomatism and enrichment processes recorded in the heterogeneous upper mantle sequence of the Neotethyan Eldivan ophiolite, Turkey. 2016 , 246-247, 228-245	38
1188	Evidence for chemically heterogeneous Arctic mantle beneath the Gakkel Ridge. 2016 , 174, 291-312	36
1187	Simple models for disequilibrium fractional melting and batch melting with application to REE fractionation in abyssal peridotites. 2016 , 173, 181-197	18
1186	The timescales of magma evolution at mid-ocean ridges. 2016 , 240-243, 49-68	13
1185	Distribution and Processing of Highly Siderophile Elements in Cratonic Mantle Lithosphere. 2016 , 81, 239-304	50
1184	Two-component mantle melting-mixing model for the generation of mid-ocean ridge basalts: Implications for the volatile content of the Pacific upper mantle. 2016 , 176, 44-80	85
1183	Water and partial melting of Earth mantle. 2016 , 59, 720-730	8
1182	Isotopic evidence for a lithospheric origin of alkaline rocks and carbonatites: an example from southern Africa. 2016 , 53, 1216-1226	10
1181	Pervasive, tholeiitic refertilisation and heterogeneous metasomatism in Northern Victoria Land lithospheric mantle (Antarctica). 2016 , 248-251, 493-505	12
1180	A paleoproterozoic intra-arc basin associated with a juvenile source in the Southern Brasilia Orogen: Application of UBb and HfNd isotopic analyses to provenance studies of complex areas. 2016 , 276, 178-193	28
1179	Geochemical record of subduction initiation in the sub-arc mantle: Insights from the Loma Caribe peridotite (Dominican Republic). 2016 , 252-253, 1-15	34
1178	The extremely enriched mantle beneath the Yangtze Craton in the Neoproterozoic: Constraints from the Qichun pyroxenite. 2016 , 276, 194-210	17
1177	Jurassic metabasic rocks in the $K^-z^-l^-$ rmak accretionary complex (Karg $^-$ region, Central Pontides, Northern Turkey). 2016 , 672-673, 34-49	22
1176	Si and O self-diffusion in hydrous forsterite and iron-bearing olivine from the perspective of defect chemistry. 2016 , 43, 119-126	6
1175	Global variations in abyssal peridotite compositions. 2016 , 248-251, 193-219	197
1174	Petrogenesis and Geochemistry of Archean Komatiites. 2016 , 57, 147-184	70
1173	Seawater-derived rare earth element addition to abyssal peridotites during serpentinization. 2016 , 248-251, 432-454	32
1172	Constraints on the early delivery and fractionation of Earth® major volatiles from C/H, C/N, and C/S ratios. 2016 , 101, 540-553	58

1171	Geochemistry and petrology of the lower Miocene bimodal volcanic units in the Tun b ilek D omanil basin, western Anatolia. 2016 , 58, 1234-1252		9
1170	A proposed new approach and unified solution to old Pb paradoxes. 2016 , 252-253, 32-40		18
1169	Petrogenesis of the early Cretaceous volcanic rocks in the North Huaiyang tectono-magmatic unit of the Dabie Orogen, eastern China: Implications for crusthantle interaction. 2016 , 118, 51-67		5
1168	Assimilation, differentiation, and thickening during formation of arc crust in space and time: The Jurassic Bonanza arc, Vancouver Island, Canada. 2016 , 128, 543-557		7
1167	Highly Siderophile Element and Os Isotope Systematics of Volcanic Rocks at Divergent and Convergent Plate Boundaries and in Intraplate Settings. 2016 , 81, 651-724		38
1166	The thermal effect of fluid circulation in the subducting crust on slab melting in the Chile subduction zone. <i>Earth and Planetary Science Letters</i> , 2016 , 434, 101-111	5.3	3
1165	Origin of Baotoudong syenites in North China Craton: Petrological, mineralogical and geochemical evidence. 2016 , 59, 95-110		15
1164	The petrology of Paleogene volcanism in the Central Sakarya, Nall-han Region: Implications for the initiation and evolution of post-collisional, slab break-off-related magmatic activity. 2016 , 246-247, 81-	·98	22
1163	Late Ordovician (post-Sardic) rifting branches in the North Gondwanan Montagne Noire and Mouthoumet massifs of southern France. 2016 , 681, 111-123		25
1162	Transition from adakitic to bimodal magmatism induced by the paleo-Pacific plate subduction and slab rollback beneath SE China: Evidence from petrogenesis and tectonic setting of the dike swarms. 2016 , 244, 182-204		22
1161	Mantle Sulfides and their Role in ReDs and Pb Isotope Geochronology. 2016 , 81, 579-649		43
1160	Enriched continental flood basalts from depleted mantle melts: modeling the lithospheric contamination of Karoo lavas from Antarctica. 2016 , 171, 1		33
1159	Recycling and transport of continental material through the mantle wedge above subduction zones: A Caribbean example. <i>Earth and Planetary Science Letters</i> , 2016 , 436, 93-107	5.3	50
1158	New constraints on upper mantle creep mechanism inferred from silicon grain-boundary diffusion rates. <i>Earth and Planetary Science Letters</i> , 2016 , 433, 350-359	5.3	26
1157	Melt evolution beneath a rifted craton edge: 40Ar/39Ar geochronology and SrNdHfPb isotope systematics of primitive alkaline basalts and lamprophyres from the SW Baltic Shield. 2016 , 173, 1-36		26
1156	Geological setting and geochemical signatures of the mafic rocks from the Intra-Pontide Suture Zone: implications for the geodynamic reconstruction of the Mesozoic Neotethys. 2016 , 105, 39-64		19
1155	Permo-Carboniferous and early Miocene geological evolution of the internal zones of the Maghrebides [New insights on the western Mediterranean evolution. 2016 , 96, 146-173		10
1154	Geochronology and geochemistry of the high Mg dioritic dikes in Eastern Tianshan, NW China: Geochemical features, petrogenesis and tectonic implications. 2016 , 115, 442-454		20

1153	Middle Paleozoic mafic magmatism and ocean plate stratigraphy of the South Tianshan, Kyrgyzstan. 2016 , 30, 236-256	64
1152	Post-collisional potassic magmatism in the eastern Lhasa terrane, South Tibet: Products of partial melting of mlanges in a continental subduction channel. 2017 , 41, 9-28	21
1151	Geochemistry of the Palaeoproterozoic volcanic and associated potassic granitic rocks of the Ngualla area of the Ubendian Belt, SW Tanzania. 2017 , 129, 291-306	2
1150	Petrology, geochemistry and Sm-Nd analyses on the Balkan-Carpathian Ophiolite (BCO lRomania, Serbia, Bulgaria): Remnants of a Devonian back-arc basin in the easternmost part of the Variscan domain. 2017 , 105, 27-50	17
1149	Dynamic contribution of recycled components from the subducted Pacific slab: Oxygen isotopic composition of the basalts from 106 Ma to 60 Ma in North China Craton. 2017 , 122, 988-1006	10
1148	Continental crust formation: Numerical modelling of chemical evolution and geological împlications. 2017 , 278-281, 215-228	6
1147	An introduction of Markov chain Monte Carlo method to geochemical inverse problems: Reading melting parameters from REE abundances in abyssal peridotites. 2017 , 203, 216-234	13
1146	Heterogeneity in mantle carbon content from CO-undersaturated basalts. 2017 , 8, 14062	61
1145	Influence of the architecture of magma-poor hyperextended rifted margins on orogens produced by the closure of narrow versus wide oceans. 2017 , 13, 559-576	37
1144	Post-collisional ultrapotassic rocks and mantle xenoliths in the Sailipu volcanic field of Lhasa terrane, south Tibet: Petrological and geochemical constraints on mantle source and geodynamic setting. 2017 , 46, 17-42	17
1143	Petrogenesis of meta-volcanic rocks from the Maimʿ Formation (Dominican Republic): Geochemical record of the nascent Greater Antilles paleo-arc. 2017 , 278-281, 255-273	19
1142	Mantle transition zone-derived EM1 component beneath NE China: Geochemical evidence from Cenozoic potassic basalts. <i>Earth and Planetary Science Letters</i> , 2017 , 465, 16-28	91
1141	Geochemistry of metabasites from the North Shahrekord metamorphic complex, Sanandaj-Sirjan Zone: Geodynamic implications for the Pan-African basement in Iran. 2017 , 293, 56-72	18
1140	Trace element partitioning between plagioclase and silicate melt: The importance of temperature and plagioclase composition, with implications for terrestrial and lunar magmatism. 2017 , 206, 273-295	69
1139	A mantle plume origin for the Palaeoproterozoic Circum-Superior Large Igneous Province. 2017 , 294, 189-213	31
1138	Across-arc versus along-arc Sr-Nd-Pb isotope variations in the Ecuadorian volcanic arc. 2017 , 18, 1163-1188	36
1137	Basalts and picrites from a plume-type ophiolite in the South Qilian Accretionary Belt, Qilian Orogen: Accretion of a Cambrian Oceanic Plateau?. 2017 , 278-281, 97-110	51
1136	Origin of geochemical mantle components: Role of spreading ridges and thermal evolution of mantle. 2017 , 18, 697-734	18

1135	Experimental constraints on the damp peridotite solidus and oceanic mantle potential temperature. 2017 , 355, 942-945	49
1134	Origins of water content variations in the suboceanic upper mantle: Insight from Southwest Indian Ridge abyssal peridotites. 2017 , 18, 1298-1329	7
1133	Classification of geochemical data based on multivariate statistical analyses: Complementary roles of cluster, principal component, and independent component analyses. 2017 , 18, 994-1012	38
1132	Boninite-like intraplate magmas from Manihiki Plateau require ultra-depleted and enriched source components. 2017 , 8, 14322	30
1131	The cold and relatively dry nature of mantle forearcs in subduction zones. 2017 , 10, 333-337	93
1130	Geochemistry of olivine-hosted melt inclusions in the Baekdusan (Changbaishan) basalts: Implications for recycling of oceanic crustal materials into the mantle source. 2017 , 284-285, 194-206	18
1129	Zircon Lu-Hf isotope systematics and UPb geochronology, whole-rock Sr-Nd isotopes and geochemistry of the early Jurassic Gokcedere pluton, Sakarya Zone-NE Turkey: a magmatic response to roll-back of the Paleo-Tethyan oceanic lithosphere. 2017 , 172, 1	25
1128	Hf isotope evidence for variable slab input and crustal addition in basalts and andesites of the Taupo Volcanic Zone, New Zealand. 2017 , 284-285, 222-236	18
1127	Jurassic Hornblende Gabbros in Dongga, Eastern Gangdese, Tibet: Partial Melting of Mantle Wedge and Implications for Crustal Growth. 2017 , 91, 545-564	25
1126	The fate of sulfide during decompression melting of peridotite [Implications for sulfur inventory of the MORB-source depleted upper mantle. <i>Earth and Planetary Science Letters</i> , 2017 , 459, 183-195	29
1125	South-to-north pyroxeniteperidotite source variation correlated with an OIB-type to arc-type enrichment of magmas from the Payenia backarc of the Andean Southern Volcanic Zone (SVZ). 2017 , 172, 1	10
1124	Heterogeneous source components of intraplate basalts from NE China induced by the ongoing Pacific slab subduction. <i>Earth and Planetary Science Letters</i> , 2017 , 459, 208-220	50
1123	The importance of mantle wedge heterogeneity to subduction zone magmatism and the origin of EM1. Earth and Planetary Science Letters, 2017 , 472, 216-228	41
1122	Pitfalls in modeling mantle convection with internal heat production. 2017 , 122, 4064-4085	32
1121	13. Analysis of Rare Earth Elements in Rock and Mineral Samples by ICP-MS and LA-ICP-MS. 2017 , 334-356	1
1120	Mesozoictenozoic mafic magmatism in SanandajBirjan Zone, Zagros Orogen (Western Iran): Geochemical and isotopic inferences from Middle Jurassic and Late Eocene gabbros. 2017 , 284-285, 588-607	27
1119	Age and petrogenetic constraints on the lower glassy ignimbrite of the Mount Somers Volcanic Group, New Zealand. 2017 , 60, 209-219	8
1118	High- and low-Cr chromitite and dunite in a Tibetan ophiolite: evolution from mature subduction system to incipient forearc in the Neo-Tethyan Ocean. 2017 , 172, 1	29

1117	U-Pb isotope geochronology and geochemistry of granites from Hainan Island (northern South China Sea margin): Constraints on late Paleozoic-Mesozoic tectonic evolution. 2017 , 49, 333-349	38
1116	Compositions and processes of lithospheric mantle beneath the west Cathaysia block, southeast China. 2017 , 286-287, 241-251	9
1115	Ultra-refractory mantle domains in the Luqu ophiolite (Tibet): Petrology and tectonic setting. 2017 , 286-287, 252-263	19
1114	Continental growth seen through the sedimentary record. 2017 , 357, 16-32	62
1113	The ultramaficIntermediate Riwaka Complex, New Zealand: summary of the petrology, geochemistry and related NiIIuPGE mineralisation. 2017 , 60, 270-295	2
1112	Magmatic Evolution and Source Variations at the Nifonea Ridge (New Hebrides Island Arc). 2017 , 58, 473-494	9
1111	Geochemical stratigraphy and correlation within large igneous provinces: The final preserved stages of the Faroe Islands Basalt Group. 2017 , 286-287, 1-15	17
1110	The influence of a subduction component on magmatism in the Okinawa Trough: Evidence from thorium and related trace element ratios. 2017 , 145, 205-216	21
1109	142Nd/144Nd inferences on the nature and origin of the source of high 3He/4He magmas. <i>Earth and Planetary Science Letters</i> , 2017 , 472, 62-68	13
1108	Water content in the Martian mantle: A Nakhla perspective. 2017 , 212, 84-98	11
1107	High water content in primitive mid-ocean ridge basalt from Southwest Indian Ridge (51.56°E): Implications for recycled hydrous component in the mantle. 2017 , 28, 411-421	5
1106	The roles of pyroxenite and peridotite in the mantle sources of oceanic basalts. 2017 , 10, 530-535	68
1105	Age and Petrogenesis of the Doros Complex, Namibia, and Implications for Early Plume-derived Melts in the Paran E tendeka LIP. 2017 , 58, 423-442	13
1104	A REE-in-plagioclaseElinopyroxene thermometer for crustal rocks. 2017 , 172, 1	29
1103	Shallow melting of MORB-like mantle under hot continental lithosphere, Central Anatolia. 2017, 18, 1866-188	38 48
1102	Magma-magma interaction in the mantle beneath eastern China. 2017 , 122, 2763-2779	21
1101	Magmatic recharge buffers the isotopic compositions against crustal contamination in formation of continental flood basalts. 2017 , 284-285, 1-10	7
1100	The boron and lithium isotopic composition of mid-ocean ridge basalts and the mantle. 2017 , 207, 102-138	127

1099	Two-layered oceanic lithospheric mantle in a Tibetan ophiolite produced by episodic subduction of Tethyan slabs. 2017 , 18, 1189-1213		22	
1098	Toward a Greater Kerguelen large igneous province: Evolving mantle source contributions in and around the Indian Ocean. 2017 , 282-283, 163-172		36	
1097	Along-arc, inter-arc and arc-to-arc variations in volcanic gas CO 2 /S T ratios reveal dual source of carbon in arc volcanism. 2017 , 168, 24-47		84	
1096	Neoarchean DTTG gneisses in southern Liaoning Province and their constraints on crustal growth and the nature of the Liao-Ji Belt in the Eastern Block. 2017 , 303, 183-207		35	
1095	SIMS chlorine isotope analyses in melt inclusions from arc settings. 2017 , 449, 112-122		19	
1094	Fingerprinting fluid sources in Troodos ophiolite complex orbicular glasses using high spatial resolution isotope and trace element geochemistry. 2017 , 200, 145-166		13	
1093	Evolution of the mantle beneath the eastern North China Craton during the Cenozoic: Linking geochemical and geophysical observations. 2017 , 122, 224-246		17	
1092	MeltMigrator: A MATLAB-based software for modeling three-dimensional melt migration and crustal thickness variations at mid-ocean ridges following a rules-based approach. 2017 , 18, 445-456		1	
1091	From olivine nephelinite, basanite and basalt to peralkaline trachyphonolite and comendite in the Ankaratra volcanic complex, Madagascar: 40 Ar/ 39 Ar ages, phase compositions and bulk-rock geochemical and isotopic evolution. 2017 , 274-275, 363-382		24	
1090	186Os 187Os and highly siderophile element abundance systematics of the mantle revealed by abyssal peridotites and Os-rich alloys. 2017 , 200, 232-254		68	
1089	Neoproterozoic IAT intrusion into Mesoproterozoic MOR Miaowan Ophiolite, Yangtze Craton: Evidence for evolving tectonic settings. 2017 , 289, 75-94		50	
1088	Mantle to surface degassing of carbon- and sulphur-rich alkaline magma at El Hierro, Canary Islands. <i>Earth and Planetary Science Letters</i> , 2017 , 460, 268-280	5.3	34	
1087	Petrogenesis of Late Cenozoic basaltic rocks from southern Vietnam. 2017 , 272-273, 192-204		41	
1086	HeliumBxygenBsmium isotopic and elemental constraints on the mantle sources of the Deccan Traps. <i>Earth and Planetary Science Letters</i> , 2017 , 478, 245-257	5.3	8	
1085	Olivine-hosted melt inclusions as an archive of redox heterogeneity in magmatic systems. <i>Earth and Planetary Science Letters</i> , 2017 , 479, 192-205	5.3	27	
1084	Constraining mantle carbon: CO 2 -trace element systematics in basalts and the roles of magma mixing and degassing. <i>Earth and Planetary Science Letters</i> , 2017 , 480, 1-14	5.3	21	
1083	Mantle geochemistry: Insights from ocean island basalts. 2017 , 60, 1976-2000		8	
1082	Trace Element and Isotope Geochemistry of the Northern and Central Tongan Islands with an Emphasis on the Genesis of High Nb/Ta Signatures at the Northern Volcanoes of Tafahi and Niuatoputapu. 2017 , 58, 1073-1106		13	

1081	Submarine Basaltic Glasses from the Galapagos Archipelago: Determining the Volatile Budget of the Mantle Plume. 2017 , 58, 1419-1450		14
1080	Geochemistry of volcanic and plutonic rocks from the Nahlin ophiolite with implications for a Permollriassic arc in the Cache Creek terrane, northwestern British Columbia. 2017 , 54, 1214-1227		9
1079	How do granitoid magmas mix with each other? Insights from textures, trace element and SrNd isotopic composition of apatite and titanite from the Matok pluton (South Africa). 2017 , 172, 1		32
1078	Physico-chemistry and geochemistry of Balengou clay deposit (West Cameroon) with inference to an argillic hydrothermal alteration. 2017 , 349, 212-222		4
1077	Tracing subducted sediment inputs to the Ryukyu arc-Okinawa Trough system: Evidence from thallium isotopes. 2017 , 217, 462-491		60
1076	Slab-derived components in the subcontinental lithospheric mantle beneath Chilean Patagonia: Geochemistry and SrNdPb isotopes of mantle xenoliths and host basalt. 2017 , 292-293, 179-197		9
1075	Genesis of ultra-high-Ni olivine in high-Mg andesite lava triggered by seamount subduction. 2017 , 7, 11515		13
1074	Differentiation of the early silicate Earth as recorded by 142 Nd- 143 Nd in 3.8B.0 Ga rocks from the Anshan Complex, North China Craton. 2017 , 301, 86-101		5
1073	Light Stable Isotopic Compositions of Enriched Mantle Sources: Resolving the Dehydration Paradox. 2017 , 18, 3801-3839		49
1072	Petrogenesis of the Late Cretaceous Tholeiitic Volcanism and Oceanic Island Arc Affinity of the Chagai Arc, Western Pakistan. 2017 , 91, 1248-1263		6
1071	Spreading rate-dependent variations in crystallization along the global mid-ocean ridge system. 2017 , 18, 3016-3033		13
1070	Carbonated sediment recycling and its contribution to lithospheric refertilization under the northern North China Craton. 2017 , 466, 641-653		30
1069	Electrical conductivity of the oceanic asthenosphere and its interpretation based on laboratory measurements. 2017 , 717, 162-181		14
1068	Typical oxygen isotope profile of altered oceanic crust recorded in continental intraplate basalts. 2017 , 28, 578-587		4
1067	Archean crustal compositions promote full mantle convection. <i>Earth and Planetary Science Letters</i> , 2017 , 474, 516-526	5.3	10
1066	Water, lithium and trace element compositions of olivine from Lanzo South replacive mantle dunites (Western Alps): New constraints into melt migration processes at cold thermal regimes. 2017 , 214, 51-72		18
1065	The importance of grain size to mantle dynamics and seismological observations. 2017 , 18, 3034-3061		41
1064	Improved Precision and Accuracy of Quantification of Rare Earth Element Abundances via Medium-Resolution LA-ICP-MS. 2017 , 28, 2344-2351		3

1063	Water in the Earth⊠Interior: Distribution and Origin. 2017 , 212, 743-810	92
1062	Petrogenesis of an Early Cretaceous lamprophyre dike from Kyoto Prefecture, Japan: Implications for the generation of high-Nb basalt magmas in subduction zones. 2017 , 290-291, 18-33	8
1061	Mt Bambouto Volcano, Cameroon Line: Mantle Source and Differentiation of Within-plate Alkaline Rocks. 2017 ,	4
1060	Lead isotope evolution across the Neoproterozoic boundary between craton and juvenile crust, Bayuda Desert, Sudan. 2017 , 135, 72-81	1
1059	High Ni and low Mn/Fe in olivine phenocrysts of the Karoo meimechites do not reflect pyroxenitic mantle sources. 2017 , 467, 134-142	15
1058	Marine Carbonate Component in the Mantle Beneath the Southeastern Tibetan Plateau: Evidence From Magnesium and Calcium Isotopes. 2017 , 122, 9729-9744	40
1057	The prevalence of kilometer-scale heterogeneity in the source region of MORB upper mantle. 2017 , 3, e1701872	21
1056	The role and conditions of second-stage mantle melting in the generation of low-Ti tholeiites and boninites: the case of the Manihiki Plateau and the Troodos ophiolite. 2017 , 172, 1	28
1055	MMA-EoS: A Computational Framework for Mineralogical Thermodynamics. 2017 , 122, 9881-9920	20
1054	Chemo-probe into the mantle origin of the NW Anatolia Eocene to Miocene volcanic rocks: Implications for the role of, crustal accretion, subduction, slab roll-back and slab break-off processes in genesis of post-collisional magmatism. 2017 , 288-289, 55-71	24
1053	Composition and conditions of formation of the parental melts of Jurassic dolerites of southwestern Crimea: Evidence from melt inclusions in olivine phenocrysts. 2017 , 25, 272-303	5
1052	Eclogite xenoliths from Orapa: Ocean crust recycling, mantle metasomatism and carbon cycling at the western Zimbabwe craton margin. 2017 , 213, 574-592	22
1051	Fluorine and chlorine in mantle minerals and the halogen budget of the Earth mantle. 2017, 172, 1	17
1050	Middle Triassic back-arc basalts from the blocks in the Mersin Mlange, southern Turkey: Implications for the geodynamic evolution of the Northern Neotethys. 2017 , 268-271, 102-113	28
1049	The origin of Cenozoic continental basalts in east-central China: Constrained by linking Pb isotopes to other geochemical variables. 2017 , 268-271, 302-319	22
1048	Geochemistry of lavas from the Caroline hotspot, Micronesia: Evidence for primitive and recycled components in the mantle sources of lavas with moderately elevated 3He/4He. 2017 , 455, 385-400	13
1047	The stoichiometric effects of ferric iron substitutions in serpentine from microprobe data. 2017 , 59, 541-547	9
1046	Chlorine and fluorine partition coefficients and abundances in sub-arc mantle xenoliths (Kamchatka, Russia): Implications for melt generation and volatile recycling processes in subduction zones. 2017 , 199, 324-350	24

1045	Primitive arc magma diversity: New geochemical insights in the Cascade Arc. 2017 , 448, 43-70	29
1044	Plates or plumes in the origin of kimberlites: U/Pb perovskite and Sr-Nd-Hf-Os-C-O isotope constraints from the Superior craton (Canada). 2017 , 455, 57-83	54
1043	Precise U-Pb zircon ages and geochemistry of Jurassic granites, Ellsworth-Whitmore terrane, central Antarctica. 2017 , 129, 118-136	18
1042	Isotopic compositions of intrusive rocks from the Wallowa and Olds Ferry arc terranes of northeastern Oregon and western Idaho: Implications for Cordilleran evolution, lithospheric structure, and Miocene magmatism. 2017 , 9, 235-264	10
1041	Petrogenesis and geodynamics of plagiogranites from Central Turkey (Ekecikda[Aksaray): new geochemical and isotopic data for generation in an arc basin system within the northern branch of Neotethys. 2017 , 106, 1181-1203	11
1040	The growth and contamination mechanism of the Cana Brava layered mafic-ultramafic complex: new field and geochemical evidences. 2017 , 111, 291-314	5
1039	Cambrian Parly Ordovician volcanism across the South Armorican and Occitan domains of the Variscan Belt in France: Continental break-up and rifting of the northern Gondwana margin. 2017 , 8, 25-64	22
1038	Sr-Nd-Pb isotopic systematics of crustal rocks from the western Betics (S. Spain): Implications for crustal recycling in the lithospheric mantle beneath the westernmost Mediterranean. 2017 , 276, 45-61	15
1037	Silica-enriched mantle sources of subalkaline picrite-boninite-andesite island arc magmas. 2017 , 199, 287-303	31
1036	Trace element and Sr isotope records of multi-episode carbonatite metasomatism on the eastern margin of the North China Craton. 2017 , 18, 220-237	22
1035	Pre-collisional, Tonian (ca. 790 Ma) continental arc magmatism in southern Mantiqueira Province, Brazil: Geochemical and isotopic constraints from the Vizea do Capivarita Complex. 2017 , 274-275, 39-52	23
1034	Recycling of Paleotethyan oceanic crust: Geochemical record from postcollisional mafic igneous rocks in the Tongbai-HongIIn orogens. 2017 , 129, 179-192	21
1033	Distribution, cycling and impact of water in the Earth's interior. 2017 , 4, 879-891	15
1032	Petrology and Geochemistry of the Quaternary Mafic Volcanism to the NE of Lake Van, Eastern Anatolian Collision Zone, Turkey. 2017 , 58, 1701-1728	24
1031	Mid-ocean Ridge Serpentinite in the Puerto Rico Trench: from Seafloor Spreading to Subduction. 2017 , 58, 1729-1754	17
1030	Geochemical Constraints Provided by the Freetown Layered Complex (Sierra Leone) on the Origin of High-Ti Tholeiitic CAMP Magmas. 2017 , 58, 1811-1840	32
1029	Analysis of Rare Earth Elements in Rock and Mineral Samples by ICP-MS and LA-ICP-MS. 2017, 2,	9
1028	Lithospheric heating by crustal thickening: a possible origin of the ParnaBa Basin. 2018 , 472, 37-44	7

1027	Enrichment of 18O in the mantle sources of the Antarctic portion of the Karoo large igneous province. 2018 , 173, 1	14
1026	Tectonic affinities of the accreted basalts in southern Taiwan. 2018 , 158, 253-265	3
1025	A morphogram for silica-witherite biomorphs and its application to microfossil identification in the early earth rock record. 2018 , 16, 279-296	35
1024	Contrasting thermal and melting histories for segments of mantle lithosphere in the Nahlin ophiolite, British Columbia, Canada. 2018 , 173, 1	7
1023	Molybdenum isotope variations in calc-alkaline lavas from the Banda arc, Indonesia: Assessing the effect of crystal fractionation in creating isotopically heavy continental crust. 2018 , 485, 1-13	26
1022	From mantle peridotites to hybrid troctolites: Textural and chemical evolution during melt-rock interaction history (Mt. Maggiore, Corsica, France). 2018 , 323, 4-23	18
1021	Diversity and evolution of suboceanic mantle: Constraints from Neotethyan ophiolites at the eastern margin of the Indian plate. 2018 , 160, 67-77	14
1020	Uranium accumulation in modern and ancient Fe-oxide sediments: Examples from the Ashadze-2 hydrothermal sulfide field (Mid-Atlantic Ridge) and Yubileynoe massive sulfide deposit (South Urals, Russia). 2018 , 367, 164-174	15
1019	Bilateral geochemical asymmetry in the Karoo large igneous province. 2018 , 8, 5223	40
1018	Halogens and noble gases in serpentinites and secondary peridotites: Implications for seawater subduction and the origin of mantle neon. 2018 , 235, 285-304	36
1017	Spinel and plagioclase peridotites of the Nain ophiolite (Central Iran): Evidence for the incipient stage of oceanic basin formation. 2018 , 310-311, 1-19	8
1016	Melt transport and mantle assimilation at Atlantis Massif (IODP Site U1309): Constraints from geochemical modeling. 2018 , 323, 24-43	20
1015	Mesozoic high-Mg andesites from the Daohugou area, Inner Mongolia: Upper-crustal fractional crystallization of parental melt derived from metasomatized lithospheric mantle wedge. 2018 , 302-303, 535-548	13
1014	The Behavior of Halogens During Subduction-Zone Processes. 2018 , 545-590	27
1013	Calcium Isotopic Compositions of Normal Mid-Ocean Ridge Basalts From the Southern Juan de Fuca Ridge. 2018 , 123, 1303-1313	34
1012	Halogens in Terrestrial and Cosmic Geochemical Systems: Abundances, Geochemical Behaviors, and Analytical Methods. 2018 , 21-121	10
1011	Geochronology and geochemistry of Late Devonian-Carboniferous igneous rocks in the Songnen-Zhangguangcai Range Massif, NE China: Constraints on the late Paleozoic tectonic evolution of the eastern Central Asian Orogenic Belt. 2018 , 57, 119-132	8
1010	Hainan mantle plume produced late Cenozoic basaltic rocks in Thailand, Southeast Asia. 2018 , 8, 2640	34

1009 Isotope Geochemistry of Oceanic Volcanics. 134-166

1008	Melt inclusion constraints on petrogenesis of the 2014-2015 Holuhraun eruption, Iceland. 2018 , 173, 10		30
1007	Evaluating the Resolution of Deep Mantle Plumes in Teleseismic Traveltime Tomography. 2018 , 123, 384-400		20
1006	Petrogenesis of ultramafic rocks and olivine-rich troctolites from the East Taiwan Ophiolite in the Lichi mlange. 2018 , 112, 521-534		4
1005	Tracking Hadean processes in modern basalts with 142-Neodymium. <i>Earth and Planetary Science Letters</i> , 2018 , 484, 184-191	5.3	28
1004	Sodium-chromium covariation in residual clinopyroxenes from abyssal peridotites sampled in the 43°46°E region of the Southwest Indian Ridge. 2018 , 302-303, 142-157		12
1003	The Triassic magmatism and its relation with the Pre-Andean tectonic evolution: Geochemical and petrographic constrains from the High Andes of north central Chile (29°30? B0°S). 2018 , 87, 95-112		13
1002	Archaean tectonic systems: A view from igneous rocks. 2018 , 302-303, 99-125		144
1001	Mg lattice diffusion in iron-free olivine and implications to conductivity anomaly in the oceanic asthenosphere. <i>Earth and Planetary Science Letters</i> , 2018 , 484, 204-212	5.3	20
1000	Transfer of subduction fluids into the deforming mantle wedge during nascent subduction: Evidence from trace elements and boron isotopes (Semail ophiolite, Oman). <i>Earth and Planetary Science Letters</i> , 2018 , 484, 213-228	5.3	37
999	Collisional stripping of planetary crusts. Earth and Planetary Science Letters, 2018, 484, 276-286	5.3	42
998	Geochemical insights into the lithology of mantle sources for Cenozoic alkali basalts in West Qinling, China. 2018 , 302-303, 86-98		10
997	Mantle sources of kimberlites through time: A U-Pb and Lu-Hf isotope study of zircon megacrysts from the Siberian diamond fields. 2018 , 479, 228-240		39
996	Melt inclusion constraints on volatile systematics and degassing history of the 2014 2 015 Holuhraun eruption, Iceland. 2018 , 173, 1		23
995	Magma Mixing in a Granite and Related Rock Association: Insight From Its Mineralogical, Petrochemical, and R eversed Isotopel Features. 2018 , 123, 2262-2285		25
994	Geochemical evidence for Paleozoic crustal growth and tectonic conversion in the Northern Beishan Orogenic Belt, southern Central Asian Orogenic Belt. 2018 , 302-303, 189-202		21
993	Subduction factory in an ampoule: Experiments on sedimentperidotite interaction under temperature gradient conditions. 2018 , 223, 319-349		13
992	Global distribution of the HIMU end member: Formation through Archean plume-lid tectonics. 2018 , 182, 85-101		24

991	Fluorine in the Earth and the solar system, where does it come from and can it be found?. 2018 , 21, 749-756	14
990	Petrologic evolution of Miocene-Pliocene mafic volcanism in the Kangal and Gffi basins (Sivas-Malatya), central east Anatolia: Evidence for Miocene anorogenic magmas contaminated by continental crust. 2018 , 310-311, 392-408	17
989	Unexpected HIMU-type late-stage volcanism on the Walvis Ridge. <i>Earth and Planetary Science Letters</i> , 2018 , 492, 251-263	16
988	Evidence for melting of subducting carbonate-rich sediments in the western Aegean Arc. 2018 , 483, 463-473	12
987	Length-scales of chemical and isotopic heterogeneity in the mantle section of the Shetland Ophiolite Complex, Scotland. <i>Earth and Planetary Science Letters</i> , 2018 , 488, 144-154	15
986	Ar-Ar dating and petrogenesis of the Early Miocene TaRap [~] -Mecitli (ErciEVan) granitoid, Eastern Anatolia Collisional Zone, Turkey. 2018 , 158, 210-226	16
985	Linking the rise of atmospheric oxygen to growth in the continental phosphorus inventory. <i>Earth and Planetary Science Letters</i> , 2018 , 489, 28-36	33
984	Origin of depleted basalts during subduction initiation and early development of the Izu-Bonin-Mariana island arc: Evidence from IODP expedition 351 site U1438, Amami-Sankaku basin. 2018 , 229, 85-111	56
983	Geochemical and Sr-Nd-Pb-Li isotopic characteristics of volcanic rocks from the Okinawa Trough: Implications for the influence of subduction components and the contamination of crustal materials. 2018 , 180, 140-151	24
982	Neoproterozoic amalgamation between Yangtze and Cathaysia blocks: The magmatism in various tectonic settings and continent-arc-continent collision. 2018 , 309, 56-87	86
981	Early Paleozoic dioritic and granitic plutons in the Eastern Tianshan Orogenic Belt, NW China: Constraints on the initiation of a magmatic arc in the southern Central Asian Orogenic Belt. 2018 , 153, 139-153	39
980	Petrogenesis of carbonatitic lamproitic dykes from Sidhi gneissic complex, Central India. 2018 , 9, 531-547	7
979	The JurassicEarly Cretaceous basaltEhert association in the ophiolites of the Ankara Mlange, east of Ankara, Turkey: age and geochemistry. 2018 , 155, 451-478	14
978	The Panjal Traps. 2018 , 463, 59-86	19
977	Elemental and Sr-Nd-Pb isotope geochemistry of the Florianpolis Dyke Swarm (Paran Magmatic Province): crustal contamination and mantle source constraints. 2018 , 355, 149-164	9
976	Behaviour of Strontium in Plants and the Environment. 2018,	11
975	Constraining a Precambrian Wilson Cycle lifespan: An example from the ca. 1.8 Ga Nagssugtoqidian Orogen, Southeastern Greenland. 2018 , 296-299, 1-16	5
974	Characterization and origin of granites from the Luoyang Fe deposit, southwestern Fujian Province, South China. 2018 , 184, 119-135	9

(2018-2018)

973	Geochronology, geochemistry and isotope systematics of a maficIntermediate dyke complex in the *stanbul Zone. New constraints on the evolution of the Black Sea in NW Turkey. 2018 , 464, 131-168	8
972	Direct ascent to the surface of asthenospheric magma in a region of convex lithospheric flexure. 2018 , 60, 1231-1243	12
971	Cryogenian magmatism along the north-western margin of Laurentia: Plume or rift?. 2018, 319, 144-157	9
970	Did boninite originate from the heterogeneous mantle with recycled ancient slab?. 2018 , 27, e12221	15
969	High-potassium volcanic rocks from the Okinawa Trough: Implications for a cryptic potassium-rich and DUPAL-like source. 2018 , 53, 1755-1766	12
968	Plume-stagnant slab-lithosphere interactions: Origin of the late Cenozoic intra-plate basalts on the East Eurasia margin. 2018 , 300-301, 227-249	36
967	Geochemical constraints on the spatial distribution of recycled oceanic crust in the mantle source of late Cenozoic basalts, Vietnam. 2018 , 296-299, 382-395	31
966	New insights into the geodynamics of Neo-Tethys in the Makran area: Evidence from age and petrology of ophiolites from the Coloured Mlange Complex (SE Iran). 2018 , 62, 306-327	36
965	Tectonic controls on Ni and Cu contents of primary mantle-derived magmas for the formation of magmatic sulfide deposits. 2018 , 103, 1545-1567	20
964	Melt evolution of upper mantle peridotites and mafic dikes in the northern ophiolite belt of the western Yarlung Zangbo suture zone (southern Tibet). 2018 , 10, 109-132	19
963	Early Tertiary extensional magmatism in southern Mexico and its relationship to exhumation of the Xolapa complex and detachment of the Chortis block. 2018 , 130, 796-810	4
962	Pressure, temperature, water content, and oxygen fugacity dependence of the Mg grain-boundary diffusion coefficient in forsterite. 2018 , 103, 1354-1361	6
961	Late Cretaceous Construction of the Mantle Lithosphere Beneath the Central California Coast Revealed by Crystal Knob Xenoliths. 2018 , 19, 3302-3346	2
960	Variable slab-mantle interaction in a nascent Neoproterozoic arcBack-arc system generating boninitic-tholeiitic lavas and magnesian andesites. 2018 , 130, 1562-1582	6
959	Early Devonian volcanics of southeastern Gorny Altai: geochemistry, isotope (Sr, Nd, and O) composition, and petrogenesis (Aksai complex). 2018 , 59, 905-924	2
958	Breakdown of residual zircon in the Izu arc subducting slab during backarc rifting. 2018, 46, 371-374	8
957	Time-progressive mantle-melt evolution and magma production in a Tethyan marginal sea: A case study of the Albanide-Hellenide ophiolites. 2018 , 10, 35-53	36
956	Martian magmatism from plume metasomatized mantle. 2018 , 9, 4799	21

955	Petrology of Peridotites and Nd-Sr Isotopic Composition of Their Clinopyroxenes from the Middle Andaman Ophiolite, India. 2018 , 8, 410	2
954	The uppermost mantle section below a remnant proto-Philippine Sea island arc: Insights from the peridotite fragments from the Daito Ridge. 2018 , 103, 1151-1160	4
953	Submarine Deep-Water Lava Flows at the Base of the Western Galpagos Platform. 2018, 19, 3945-3961	1
952	Evidence of a shallow magma reservoir below Los Humeros volcanic complex: Insights from the geochemistry of silicate melt inclusions. 2018 , 88, 446-458	3
951	Decoding of Mantle Processes in the Mersin Ophiolite, Turkey, of End-Member Arc Type: Location of the Boninite Magma Generation. 2018 , 8, 464	4
950	Origin of the Jurassic-Cretaceous intraplate granitoids in Eastern China as a consequence of paleo-Pacific plate subduction. 2018 , 322, 405-419	11
949	Elemental Systematics in MORB Glasses From the Mid-Atlantic Ridge. 2018, 19, 4236-4259	18
948	Chromium spinel in Late Quaternary volcanic rocks from Kamchatka: Implications for spatial compositional variability of subarc mantle and its oxidation state. 2018 , 322, 212-224	11
947	The mantle source of thermal plumes: Trace and minor elements in olivine and major oxides of primitive liquids (and why the olivine compositions don@matter). 2018 , 103, 1253-1270	20
946	Formation time of the big mantle wedge beneath eastern China and a new lithospheric thinning mechanism of the North China craton deodynamic effects of deep recycled carbon. 2018 , 61, 853-868	34
945	In-situ Sr-Pb isotope geochemistry of lawsonite: A new method to investigate slab-fluids. 2018 , 320-321, 93-104	7
944	Origin of negative cerium anomalies in subduction-related volcanic samples: Constraints from Ce and Nd isotopes. 2018 , 500, 46-63	25
943	The geochemistry and petrogenesis of Carnley Volcano, Auckland Islands, SW Pacific. 2018, 61, 480-497	11
942	Constraining magma sources using primitive olivine-hosted melt inclusions from Puˆalica and Sangay volcanoes (Ecuador). 2018 , 173, 1	15
941	Habitability of Exoplanet Waterworlds. 2018 , 864, 75	46
940	Magmatic Evolution during the Cretaceous Transition from Subduction to Continental Break-up of the Eastern Gondwana Margin (New Zealand) documented by in-situ Zircon O⊞f Isotopes and Bulk-rock SrNd Isotopes. 2018 , 59, 849-880	17
939	Petrogenesis of South Armorican serpentinized peridotites. 2018 , 314-315, 100-118	3
938	Controls on the iron isotopic composition of global arc magmas. <i>Earth and Planetary Science Letters</i> , 2018 , 494, 190-201	36

937	Mantle sources and magma evolution of the Rooiberg lavas, Bushveld Large Igneous Province, South Africa. 2018 , 173, 1	15
936	Tectonic control on the genesis of magmas in the New Hebrides arc (Vanuatu). 2018 , 312-313, 290-307	10
935	Roll-Back, Extension and Mantle Upwelling Triggered Eocene Potassic Magmatism in NW Iran. 2018 , 59, 1417-1465	27
934	Variations in the H2O Content and H2O/Ce Ratio of Mantle Pyroxenites: Implications for Enriched Components in the Mantle. 2018 , 123, 5628-5643	3
933	Multidisciplinary Constraints on the Abundance of Diamond and Eclogite in the Cratonic Lithosphere. 2018 , 19, 2062-2086	27
932	Petrology of Jurassic and Cretaceous basaltic formations from the Parnaßa Basin, NE Brazil: correlations and associations with large igneous provinces. 2018 , 472, 279-308	7
931	Arc-like magmas generated by mlange-peridotite interaction in the mantle wedge. 2018, 9, 2864	49
930	Extending the realm of Archean crust in the Great Falls tectonic zone: Evidence from the Little Rocky Mountains, Montana. 2018 , 315, 264-281	9
929	The contrasting geochemical message from the New Caledonia gabbronorites: insights on depletion and contamination processes of the sub-arc mantle in a nascent arc setting. 2018 , 173, 1	18
928	Progress and challenges of big data research on petrology and geochemistry. 2018 , 3, 105-114	5
927	Late Permian Bimodal Volcanic Rocks in the Northern Qiangtang Terrane, Central Tibet: Evidence for Interaction Between the Emeishan Plume and the Paleo-Tethyan Subduction System. 2018 , 123, 6540	12
926	Final Assembly of the Southwestern Central Asian Orogenic Belt as Constrained by the Evolution of the South Tianshan Orogen: Links With Gondwana and Pangea. 2018 , 123, 7361-7388	30
925	Rifting of western Laurentia at 1.38 Ga: The Hart River sills of Yukon, Canada. 2018, 316-317, 243-260	11
924	The nature and evolution of mantle upwelling at Ross Island, Antarctica, with implications for the source of HIMU lavas. <i>Earth and Planetary Science Letters</i> , 2018 , 498, 38-53	35
923	Petrogenesis of basalts along the eastern Woodlark spreading center, equatorial western Pacific. 2018 , 316-317, 122-136	3
922	Calcium isotope evidence for subduction-enriched lithospheric mantle under the northern North China Craton. 2018 , 238, 55-67	27
921	Boninite and boninite-series volcanics in northern Zambales ophiolite: doubly vergent subduction initiation along Philippine Sea plate margins. 2018 , 9, 713-733	16
920	Barium isotope evidence for pervasive sediment recycling in the upper mantle. 2018 , 4, eaas8675	36

919	Petrogenesis of boninitic lavas from the Troodos Ophiolite, and comparison with IzuBoninMariana fore-arc crust. <i>Earth and Planetary Science Letters</i> , 2018 , 498, 203-214	5.3	48
918	Zinc isotopic systematics of Kamchatka-Aleutian arc magmas controlled by mantle melting. 2018 , 238, 85-101		41
917	Encyclopedia of Geochemistry. 2018 , 1321-1322		
916	Sub-lithospheric origin of Na-alkaline and calc-alkaline magmas in a post-collisional tectonic regime: Sr-Nd-Pb isotopes in recent monogenetic volcanism of Cappadocia, Central Turkey. 2018 , 316-317, 304-	322	22
915	Circa 1 Ga sub-seafloor hydrothermal alteration imprinted on the Horoman peridotite massif. 2018 , 8, 9887		3
914	On the equilibration timescales of isolated trace phases in mantle peridotites: Implications for the interpretation of grain-scale isotope heterogeneity in peridotitic sulfides. <i>Earth and Planetary Science Letters</i> , 2018 , 498, 427-435	5.3	2
913	Genesis of ultra-high pressure garnet pyroxenites in orogenic peridotites and its bearing on the compositional heterogeneity of the Earth mantle. 2018 , 232, 303-328		13
912	Critical vaporization of MgSiO. 2018 , 115, 5371-5376		11
911	Production of High-Sr Andesite and Dacite Magmas by Melting of Subducting Oceanic Lithosphere at Propagating Slab Tears. 2018 , 123, 3698-3728		7
910	On the Sr-Nd-Pb-Hf isotope code of enriched, Dupal-type sub-continental lithospheric mantle underneath south-western China. 2018 , 489, 46-60		6
909	No Measurable Calcium Isotopic Fractionation During Crystallization of Kilauea Iki Lava Lake. 2018 , 19, 3128-3139		32
908	Near-solidus melts of MORB + 4 wt% H2O at 0.8\overline{\mathbb{Z}}.8 GPa applied to issues of subduction magmatism and continent formation. 2018 , 173, 1		21
907	Geology and geochemistry of sediment-hosted Hanfillmassive sulfide deposit (Kastamonu 🛭 Turkey). 2018 , 101, 652-674		5
906	Probing the structure of Fe-free model basaltic glasses: A view from a solid-state 27Al and 17O NMR study of Na-Mg silicate glasses, Na2O-MgO-Al2O3-SiO2 glasses, and synthetic Fe-free KLB-1 basaltic glasses. 2018 , 238, 563-579		15
905	Petrogenesis of a ~900 Ma mafic sill from Xuzhou, North China: Implications for the genesis of Fe-Ti-rich rocks. 2018 , 318-319, 357-375		9
904	Spreading Dynamics of an Intermediate Ridge: Insights from U-series Disequilibria, Endeavour Segment, Juan de Fuca Ridge. 2018 , 59, 1847-1868		2
903	Evidence of Subduction-Related Thermal and Compositional Heterogeneity Below the United States From Transition Zone Receiver Functions. 2018 , 45, 8913-8922		11
902	Multi-stage metamorphic evolution and protolith reconstruction of spinel-bearing and symplectite-bearing ultramafic rocks in the Zheltau massif, Southern Kazakhstan (Central Asian Orogenic Belt). 2018 , 64, 11-34		2

(2019-2018)

901	Stretching chemical heterogeneities by melt migration in an upwelling mantle: An analysis based on time-dependent batch and fractional melting models. <i>Earth and Planetary Science Letters</i> , 2018 , 498, 275-287	5.3	6	
900	Petrology and geochemistry of mafic and ultramafic rocks in the north Tianshan ophiolite: Implications for petrogenesis and tectonic setting. 2018 , 318-319, 124-142		15	
899	Evidence for evolved Hadean crust from Sr isotopes in apatite within Eoarchean zircon from the Acasta Gneiss Complex. 2018 , 235, 450-462		17	
898	Diamonds and other unusual minerals from peridotites of the Myitkyina ophiolite, Myanmar. 2018 , 164, 179-193		18	
897	Hafnium isotopic constraints on the origin of late Miocene to Pliocene seamount basalts from the South China Sea and its tectonic implications. 2019 , 171, 162-168		15	
896	Geochemistry of peridotites from the Yap Trench, Western Pacific: implications for subduction zone mantle evolution. 2019 , 61, 1037-1051		5	
895	Deep roots for mid-ocean-ridge volcanoes revealed by plagioclase-hosted melt inclusions. 2019 , 572, 235-239		10	
894	Variation of melting processes and magma sources of the early Deccan flood basalts, Malwa Plateau, India. <i>Earth and Planetary Science Letters</i> , 2019 , 524, 115711	5.3	8	
893	Osmium isotope compositions and highly siderophile element abundances in abyssal peridotites from the Southwest Indian Ridge: Implications for evolution of the oceanic upper mantle. 2019 , 346-347, 105167		2	
892	Mantle source heterogeneity in monogenetic basaltic systems: A case study of Efikuyu monogenetic field (Central Anatolia, Turkey). 2019 , 15, 295-323		7	
891	Evidence for ancient fractional melting, cryptic refertilization and rapid exhumation of Tethyan mantle (Civrari Ophiolite, NW Italy). 2019 , 174, 69		6	
890	The Upper Visean Magdalen Islands Basalts of Eastern Quebec, Canada: A Complex Assemblage of Contrasting Mafic Rock Types Erupted in Peak Stages of Transtensional Basin Development above a Mantle Plume. 2019 , 127, 505-526		O	
889	Estimating the carbon content of the deep mantle with Icelandic melt inclusions. <i>Earth and Planetary Science Letters</i> , 2019 , 523, 115699	5.3	20	
888	Partial Melting of Mixed Sediment-Peridotite Mantle Source and Its Implications. 2019 , 124, 6490-6503		3	
887	Fluid flux in the lithosphere beneath southern Tibet during Neo-Tethyan slab breakoff: Evidence from an appinitegranite suite. 2019 , 344-345, 324-338		17	
886	Origin of ocean island basalts in the West African passive margin without mantle plume involvement. 2019 , 10, 3022		5	
885	Constraining Mantle Heterogeneity beneath the South China Sea: A New Perspective on Magma Water Content. 2019 , 9, 410		3	
884	Lithosphere tearing along STEP faults and synkinematic formation of lherzolite and wehrlite in the shallow subcontinental mantle. 2019 , 10, 1099-1121		12	

883	Petrogenesis of the Dunite Peak ophiolite, south-central Yukon, and the distinction between upper-plate and lower-plate settings: A new hypothesis for the late Paleozoic Mesozoic tectonic evolution of the Northern Cordillera. 2019 , 131, 274-298	4
882	Pb-isotopic constraints on the source of A-type Suites: Insights from the Hiltaba Suite - Gawler Range Volcanics Magmatic Event, Gawler Craton, South Australia. 2019 , 346-347, 105156	4
881	Light Mg Isotopic Composition in the Mantle Beyond the Big Mantle Wedge Beneath eastern Asia. 2019 , 124, 8043-8056	11
880	Geology, geochemistry and Re-Os geochronology of the Jurassic Zeybek volcanogenic massive sulfide deposit (Central Pontides, Turkey). 2019 , 111, 102994	4
879	A 4 Ga record of granitic heat production: Implications for geodynamic evolution and crustal composition of the early Earth. 2019 , 331, 105375	10
878	Basalt Tectonic Discrimination Using Combined Machine Learning Approach. 2019 , 9, 376	6
877	Constraints on Archean crust formation from open system models of Earth evolution. 2019 , 530, 119307	4
876	Effect of Serpentinite Dehydration in Subducting Slabs on Isotopic Diversity in Recycled Oceanic Crust and Its Role in Isotopic Heterogeneity of the Mantle. 2019 , 20, 5449-5472	3
875	Evolution of the Josephine Peridotite Shear Zones: 1. Compositional Variation and Shear Initiation. 2019 , 20, 5765-5785	4
874	Ge/Si Partitioning in Igneous Systems: Constraints From Laser Ablation ICP-MS Measurements on Natural Samples. 2019 , 20, 4472-4486	6
873	The nature of Earth® first crust. 2019 , 530, 119321	21
872	Geochemistry and geochronology of mafic rocks from the Jinghe ophiolitic mlange, northwest China: Implications for plume-related magmatism and accretionary processes within the North Tianshan Ocean. 2019 , 350-351, 105246	3
871	A Framework for Understanding Whole-Earth Carbon Cycling. 2019 , 313-357	18
870	Deep carbon cycle in subduction zones. 2019 , 62, 1764-1782	10
869	Geochemistry of volcanic rocks from Oldoinyo Lengai, Tanzania: Implications for mantle source lithology. 2019 , 350-351, 105223	4
868	Deep open storage and shallow closed transport system for a continental flood basalt sequence revealed with Magma Chamber Simulator. 2019 , 174, 1	16
867	Pacific Lithosphere Evolution Inferred from Aitutaki Mantle Xenoliths. 2019 , 60, 1753-1772	8
866	Cr-spinel records metasomatism not petrogenesis of mantle rocks. 2019 , 10, 5103	26

865	Tectonic Implications and Petrogenesis of the Various Types of Magmatic Rocks from the Zedang Area in Southern Tibet. 2019 , 30, 1125-1143	5
864	Importance of permeability and deep channel network on the distribution of melt, fractionation of REE in abyssal peridotites, and U-series disequilibria in basalts beneath mid-ocean ridges: A 5.3 numerical study using a 2D double-porosity model. <i>Earth and Planetary Science Letters</i> , 2019 , 528, 115788	4
863	Hot and Heterogenous High-3He/4He Components: New Constraints From Proto-Iceland Plume Lavas From Baffin Island. 2019 , 20, 5939-5967	8
862	Great Basin Mantle Xenoliths Record Active Lithospheric Downwelling Beneath Central Nevada. 2019 , 20, 751-772	8
861	The Early Permian Woniusi Flood Basalts from the Baoshan Terrane, SW China: Petrogenesis and Geodynamic Implications. 2019 , 94, 2091	0
860	Luenha picrites, Central Mozambique lMessengers from a mantle plume source of Karoo continental flood basalts?. 2019 , 346-347, 105152	4
859	Geochemical Features of Early Mesozoic Metabasalts of the Western Part of the Tukuringra Terrane, Mongol®khotsk fold belt. 2019 , 13, 107-119	1
858	SW Iberia Variscan Suture Zone: Oceanic Affinity Units. 2019, 131-171	8
857	The role of mantle melts in the transition from rifting to seafloor spreading offshore eastern North America. <i>Earth and Planetary Science Letters</i> , 2019 , 525, 115756	13
856	Subduction-zone contributions to axial volcanism in the Oman D.A.E. ophiolite. 2019 , 11, 399-411	16
855	Shallow reworking of magmatic zircon grains of latest Neoproterozoic (Timanian) age in serpentinite of the Voykar Massif, Polar Urals: new constraints from U-Pb isotopic data, and first trace elements and Lu-Hf isotopic data. 2019 , 141, 253-262	1
8 ₅₅	serpentinite of the Voykar Massif, Polar Urals: new constraints from U-Pb isotopic data, and first	1
	serpentinite of the Voykar Massif, Polar Urals: new constraints from U-Pb isotopic data, and first trace elements and Lu-Hf isotopic data. 2019 , 141, 253-262 The Late-Paleoarchean Ultra-Depleted Commondale Komatiites: Earth's Hottest Lavas and	
854	serpentinite of the Voykar Massif, Polar Urals: new constraints from U-Pb isotopic data, and first trace elements and Lu-Hf isotopic data. 2019 , 141, 253-262 The Late-Paleoarchean Ultra-Depleted Commondale Komatiites: Earth's Hottest Lavas and Consequences for Eruption. 2019 , 60, 1575-1620 Geochemistry of axial lavas from the mid- and southern Mariana Trough, and implications for	11
8 ₅₄	serpentinite of the Voykar Massif, Polar Urals: new constraints from U-Pb isotopic data, and first trace elements and Lu-Hf isotopic data. 2019, 141, 253-262 The Late-Paleoarchean Ultra-Depleted Commondale Komatiites: Earth's Hottest Lavas and Consequences for Eruption. 2019, 60, 1575-1620 Geochemistry of axial lavas from the mid- and southern Mariana Trough, and implications for back-arc magmatic processes. 2019, 113, 803-820 New constraints from Central Chile on the origins of enriched continental compositions in	5
854 853 852	serpentinite of the Voykar Massif, Polar Urals: new constraints from U-Pb isotopic data, and first trace elements and Lu-Hf isotopic data. 2019, 141, 253-262 The Late-Paleoarchean Ultra-Depleted Commondale Komatiites: Earth's Hottest Lavas and Consequences for Eruption. 2019, 60, 1575-1620 Geochemistry of axial lavas from the mid- and southern Mariana Trough, and implications for back-arc magmatic processes. 2019, 113, 803-820 New constraints from Central Chile on the origins of enriched continental compositions in thick-crusted arc magmas. 2019, 267, 51-74 Petrogenesis of a Large-Scale Miocene Zeolite Tuff in the Eastern Slovak Republic: The Nifili	11 5 11
854 853 852 851	serpentinite of the Voykar Massif, Polar Urals: new constraints from U-Pb isotopic data, and first trace elements and Lu-Hf isotopic data. 2019, 141, 253-262 The Late-Paleoarchean Ultra-Depleted Commondale Komatiites: Earth's Hottest Lavas and Consequences for Eruption. 2019, 60, 1575-1620 Geochemistry of axial lavas from the mid- and southern Mariana Trough, and implications for back-arc magmatic processes. 2019, 113, 803-820 New constraints from Central Chile on the origins of enriched continental compositions in thick-crusted arc magmas. 2019, 267, 51-74 Petrogenesis of a Large-Scale Miocene Zeolite Tuff in the Eastern Slovak Republic: The Nifi© Hrabovec Open-Pit Clinoptilolite Mine. 2019, 114, 1177-1194 Understanding melt evolution and eruption dynamics of the 1666 C.E. eruption of Cinder Cone,	11 5 11 7

847	Revisiting the Precambrian evolution of the Southwestern Tarim terrane: Implications for its role in Precambrian supercontinents. 2019 , 324, 18-31	22
846	Subduction-related Manipur Ophiolite Complex, Indo-Myanmar Ranges: elemental and isotopic record of mantle metasomatism. 2019 , 481, 195-210	9
845	The Role of Earth's Deep Volatile Cycling in the Generation of Intracontinental High-Mg Andesites: Implication for Lithospheric Thinning Beneath the North China Craton. 2019 , 124, 1305-1323	13
844	Sediment contribution in post-collisional high Ba-Sr magmatism: Evidence from the Xijing pluton in the Alxa block, NW China. 2019 , 69, 177-192	5
843	Lithospheric transformation of the northern North China Craton by changing subduction style of the Paleo-Asian oceanic plate: Constraints from peridotite and pyroxenite xenoliths in the Yangyuan basalts. 2019 , 328-329, 58-68	10
842	Evaluating the roles of melt-rock interaction and partial degassing on the CO2/Ba ratios of MORB: Implications for the CO2 budget in the Earth depleted upper mantle. 2019 , 260, 29-48	7
841	The nature of the West Antarctic Rift System as revealed by noble gases in mantle minerals. 2019 , 524, 104-118	12
840	Coexistence of MORB- and OIB-like dolerite intrusions in the Purang ultramafic massif, SW Tibet: A paradigm of plume-influenced MOR-type magmatism prior to subduction initiation in the Neo-Tethyan lithospheric mantle. 2019 , 131, 1276-1294	12
839	Pleistocene basaltic volcanism in the Krtig Ntarea and vicinity, Dac Nong Province (Vietnam). 2019 , 181, 103903	5
838	The Alkaline Lamprophyres of the Dolomitic Area (Southern Alps, Italy): Markers of the Late Triassic Change from Orogenic-like to Anorogenic Magmatism. 2019 , 60, 1263-1298	13
837	Two Types of mafic rocks in southern Tibet: A mark of tectonic setting change from Neo-Tethyan oceanic crust subduction to Indian continental crust subduction. 2019 , 181, 103883	2
836	Harzburgite found in the Hegenshan ophiolite, southeastern Central Asian Orogenic Belt: Petrogenesis and geological implications. 2019 , 75, 28-46	8
835	Early arc development recorded in PermianII riassic plutons of the northern Mojave Desert region, California, USA. 2019 , 131, 749-765	13
834	Crust-mantle coupling during continental convergence and break-up: Constraints from peridotite xenoliths from the Borborema Province, northeast Brazil. 2019 , 766, 249-269	8
833	The composition and mineralogy of rocky exoplanets: A survey of >4000 stars from the Hypatia Catalog. 2019 , 104, 817-829	13
832	A comparison between the sub-continental lithospheric mantle of Libya, Morocco and Cameroon: Evidences from structural data and trace element of mantle xenolith Cr-diopsides. 2019 , 158, 103521	1
831	Variations in continental heat production from 4 Ga to the present: Evidence from geochemical data. 2019 , 342-343, 391-406	9
830	Slab breakoff beneath the northern Yangtze Block: Implications from the Neoproterozoic Dahongshan mafic intrusions. 2019 , 342-343, 263-275	5

829	Identifying volatile mantle trend with the water fl uorinederium systematics of basaltic glass. 2019 , 522, 283-294	12
828	Late Permian back-arc extension of the eastern Paleo-Tethys Ocean: Evidence from the East Kunlun Orogen, Northern Tibetan Plateau. 2019 , 340-341, 34-48	17
827	Effect of sulfate on the basaltic liquidus and Sulfur Concentration at Anhydrite Saturation (SCAS) of hydrous basalts Implications for sulfur cycle in subduction zones. 2019 , 522, 162-174	14
826	Highly heterogeneous depleted mantle recorded in the lower oceanic crust. 2019 , 12, 482-486	19
825	Origin and geodynamic significance of the Siuna Serpentinite Mlange, Northeast Nicaragua: Insights from the large-scale structure, petrology and geochemistry of the ultramafic blocks. 2019 , 340-341, 1-19	8
824	On the geodynamics of the Alpine collisional granitoids from Central Anatolia: petrology, age and isotopic characteristics of the granitoids of the Ekecikdallgneous Association (Aksaray/Turkey). 2019 , 31, 1-26	
823	Origins of the terrestrial Hf-Nd mantle array: Evidence from a combined geodynamical-geochemical approach. <i>Earth and Planetary Science Letters</i> , 2019 , 518, 26-39	16
822	Reactive origin of mantle harzburgite: Evidence from orthopyroxene-spinel association. 2019 , 342-343, 175-186	4
821	Compositional characteristics of the MORB mantle and bulk silicate earth based on spinel peridotites from the Tariat Region, Mongolia. 2019 , 257, 206-223	17
820	An insight into the first stages of the Ferrar magmatism: ultramafic cumulates from Harrow Peaks, northern Victoria Land, Antarctica. 2019 , 174, 1	2
819	Iron isotopic composition of supra-subduction zone ophiolitic peridotite from northern Tibet. 2019 , 258, 274-289	11
818	Petrogenesis of shield volcanism from the Juan Fernfidez Ridge, Southeast Pacific: Melting of a low-temperature pyroxenite-bearing mantle plume. 2019 , 257, 311-335	3
817	Rate of Melt Ascent Beneath Iceland From the Magmatic Response to Deglaciation. 2019 , 20, 2585-2605	7
816	Early Paleozoic collision-related magmatism in the eastern North Qilian orogen, northern Tibet: A linkage between accretionary and collisional orogenesis. 2019 , 131, 1031-1056	24
815	Cu and Zn isotope fractionation during oceanic alteration: Implications for Oceanic Cu and Zn cycles. 2019 , 257, 191-205	29
814	Petrogenesis of plagiogranites from the Troodos Ophiolite Complex, Cyprus. 2019 , 174, 1	14
813	In situ measurements of lead and other trace elements in abyssal peridotite sulfides. 2019 , 104, 190-206	2
812	Process-related isotope variability in oceanic basalts revealed by high-precision Sr isotope ratios in olivine-hosted melt inclusions. 2019 , 524, 1-10	4

811	The Sidi El Hemissi Triassic phites[[Souk Ahras, NE Algeria]: petrology, geochemistry, and petrogenesis. 2019 , 12, 1	2
810	Oxidation State of Arc Mantle Revealed by Partitioning of V, Sc, and Ti Between Mantle Minerals and Basaltic Melts. 2019 , 124, 4617-4638	32
809	Water Contents of Early Cretaceous Mafic Dikes in the Jiaodong Peninsula, Eastern North China Craton: Insights into an Enriched Lithospheric Mantle Source Metasomatized by PaleoPacific Plate SubductionRelated Fluids. 2019 , 127, 343-362	19
808	Mafic dyke swarms at 1882, 535 and 200 Ma in the Caraj region, Amazonian Craton: SrNd isotopy, trace element geochemistry and inferences on their origin and geological settings. 2019 , 92, 197-208	12
807	Using Major Element Logratios to Recognize Compositional Patterns of Basalt: Implications for Source Lithological and Compositional Heterogeneities. 2019 , 124, 3458-3490	15
806	Geochemistry of the post-collisional Miocene mafic Tunceli Volcanics, Eastern Turkey: Implications for the nature of the mantle source and melting systematics. 2019 , 79, 113-129	2
805	Chemical Disequilibria, Lithospheric Thickness, and the Source of Ocean Island Basalts. 2019 , 60, 755-790	4
804	Reconsideration of Neo-Tethys evolution constrained from the nature of the Dazhuqu ophiolitic mantle, southern Tibet. 2019 , 174, 1	23
803	Temporal, spatial and geochemical evolution of late Cenozoic post-subduction magmatism in central and eastern Anatolia, Turkey. 2019 , 336-337, 67-96	24
802	Sources vs processes: Unraveling the compositional heterogeneity of rejuvenated-type Hawaiian magmas. <i>Earth and Planetary Science Letters</i> , 2019 , 514, 119-129	6
801	New Age and Geochemical Data from the Southern Colville and Kermadec Ridges, SW Pacific: Insights into the recent geological history and petrogenesis of the Proto-Kermadec (Vitiaz) Arc. 2019 , 72, 169-193	8
800	Early Cretaceous subduction of Paleo-Pacific Ocean in the coastal region of SE China: Petrological and geochemical constraints from the mafic intrusions. 2019 , 334-335, 8-24	34
799	Petrogenesis of the 1.85 Ga Sonakhan mafic dyke swarm, Bastar Craton, India. 2019 , 334-335, 88-101	16
798	The role of subducted sediments in the formation of intermediate mantle-derived magmas from the Northern Colombian Andes. 2019 , 336-337, 151-168	13
797	Integrated Radiolaria, benthic foraminifera and conodont biochronology of the pelagic Permian blocks/tectonic slices and geochemistry of associated volcanic rocks from the Mersin Mlange, southern Turkey: Implications for the Permian evolution of the northern Neotethys. 2019 , 28, e12286	12
796	Subduction zone geochemistry. 2019 , 10, 1223-1254	142
795	Origin and duration of late orogenic magmatism in the foreland of the Variscan belt (Lesponne II Chiroulet INeouvielle area, French Pyrenees). 2019 , 336-337, 183-201	11
794	CO flux emissions from the Earth's most actively degassing volcanoes, 2005-2015. 2019 , 9, 5442	47

793	Thermal-chemical conditions of the North China Mesozoic lithospheric mantle and implication for the lithospheric thinning of cratons. <i>Earth and Planetary Science Letters</i> , 2019 , 516, 1-11	5.3	24
792	High-Mg and Low-Mg Mantle Eclogites from Koidu (West African Craton) Linked by Neoproterozoic Ultramafic Melt Metasomatism of Subducted Archaean Plateau-like Oceanic Crust. 2019 , 60, 723-754		15
791	Petrology, Geochemistry and Petrogenesis of the Sidi El Hemissi Triassic Ophites (Souk Ahras, NE Algeria). 2019 , 13-16		
790	Geochemistry and petrogenesis of Archean mafic rocks from the Amsaga area, West African craton, Mauritania. 2019 , 324, 208-219		2
789	Extreme enriched and heterogeneous 87Sr/86Sr ratios recorded in magmatic plagioclase from the Samoan hotspot. <i>Earth and Planetary Science Letters</i> , 2019 , 511, 190-201	5.3	6
788	The Paleoproterozoic bimodal magmatism in the SW Yangtze block: Implications for initial breakup of the Columbia supercontinent. 2019 , 332-333, 23-38		17
787	Lithosphere tearing along STEP faults and synkinematic formation of lherzolite and wehrlite in the shallow subcontinental mantle. 2019 ,		1
786	Selenium isotope and S-Se-Te elemental systematics along the Pacific-Antarctic ridge: Role of mantle processes. 2019 , 249, 199-224		17
785	The CrustMantle Transition of the Khantaishir Arc Ophiolite (Western Mongolia). 2019 , 60, 673-700		3
784	Petrology and geochemistry of lavas from Gawar, Minawao and Zamay volcanoes of the northern segment of the Cameroon volcanic line (Central Africa): Constraints on mantle source and geochemical evolution. 2019 , 153, 31-41		14
783	Roles of Subducted Pelagic and Terrigenous Sediments in Early Jurassic Mafic Magmatism in NE China: Constraints on the Architecture of Paleo-Pacific Subduction Zone. 2019 , 124, 2525-2550		22
782	Middle Jurassic subduction-related ophiolite fragment in Triassic accretionary complex (Mamu Da⊞ophiolite, Northern Turkey). 2019 , 61, 2021-2035		4
781	Big data: new methods and ideas in geological scientific research. 2019 , 3, 1-7		2
780	Rift- and subduction-related crustal sequences in the Jinshajiang ophiolitic mlange, SW China: Insights into the eastern Paleo-Tethys. 2019 , 11, 821-833		5
779	Origin of Pumice in Sediments from the Middle Okinawa Trough: Constraints from Whole-Rock Geochemical Compositions and Sr-Nd-Pb Isotopes. 2019 , 7, 462		1
778	Origin of pyroxenites in the oceanic mantle and their implications on the reactive percolation of depleted melts. 2019 , 174, 1		7
777	Clinopyroxene/Melt Trace Element Partitioning in Sodic Alkaline Magmas. 2019, 60, 1797-1823		18
776	Ancient Melt Depletion and Metasomatic History of the Subduction Zone Mantle: Osmium Isotope Evidence of Peridotites from the Yap Trench, Western Pacific. 2019 , 9, 717		1

775	Implications of the melting depth and temperature of the Atlantic mid-ocean ridge basalts. 2019 , 38, 35-42	2
774	Kimberlites reveal 2.5-billion-year evolution of a deep, isolated mantle reservoir. 2019 , 573, 578-581	32
773	Lattice thermal conductivity of quartz at high pressure and temperature from the Boltzmann transport equation. 2019 , 126, 215106	O
77²	Decoupling of Lu-Hf and Sm-Nd Isotopic System in Deep-Seated Xenoliths from the Xuzhou-Suzhou Area, China: Differences in Element Mobility during Metamorphism. 2019 , 30, 1266-1279	3
771	Archean Boninite-like Rocks of the Northwestern Youanmi Terrane, Yilgarn Craton: Geochemistry and Genesis. 2019 , 60, 2131-2168	9
770	Late Permian intermediate and felsic intrusions in the eastern Central Asian Orogenic Belt: Final-stage magmatic record of Paleo-Asian Oceanic subduction?. 2019 , 326-327, 265-278	16
769	Petrogenesis of Paleo-Mesoproterozoic mafic rocks in the southwestern Yangtze Block of South China: Implications for tectonic evolution and paleogeographic reconstruction. 2019 , 322, 66-84	35
768	Element Transfer and Redox Conditions in Continental Subduction Zones: New Insights from Peridotites of the Ulten Zone, North Italy. 2019 , 60, 231-268	8
767	Mantle Upwelling or Plume Activity on the Periphery of the Warakurna LIP: Evidence from the Geochemistry and Petrogenesis of the Alcurra Dolerite in the Eastern Musgrave Province. 2019 , 60, 301-327	4
766	Trace-element characteristics of eastWest mantle geochemical hemispheres. 2019 , 351, 209-220	O
765	Nature and origin of the Mozambique Ridge, SW Indian Ocean. 2019 , 507, 9-22	11
764	Petrogenesis and mantle source characteristics of volcanic rocks on Jeju Island, South Korea. 2019 , 326-327, 476-490	17
763	Eclogites as palaeodynamic archives: Evidence for warm (not hot) and depleted (but heterogeneous) Archaean ambient mantle. <i>Earth and Planetary Science Letters</i> , 2019 , 505, 162-172	34
762	Evidence for rutile-bearing eclogite in the mantle sources of the Cenozoic Zhejiang basalts, eastern China. 2019 , 324-325, 152-164	6
761	A re-interpretation of the petrogenesis of Paricutin volcano: Distinguishing crustal contamination from mantle heterogeneity. 2019 , 504, 66-82	13
760	Neoarchean suprasubduction zone magmatism in the Sonakhan greenstone belt, Bastar Craton, India: Implications for subduction initiation and melt extraction. 2019 , 54, 3980-4000	1
759	What processes control the genesis of absarokite to shoshonite-banakite series in an intracontinental setting, as revealed by geochemical and Sr-Nd-Pb isotope data of Karada Stratovolcano in Central Anatolia, Turkey. 2019 , 324-325, 609-625	9
758	Phosphorus and Potassium Metasomatic Enrichment in the Mantle Source of thec. 1450🛭 425 Ma Michael Bhabogamo Gabbro of Eastern Laurentia. 2019 , 60, 57-83	9

757	Petrology and geochemistry of the Yoro-Yangben Pan-African granitoid intrusion in the archaean Adamawa-Yade crust (Sw-Bafia, Cameroon). 2019 , 150, 401-414	14
756	Petrogenesis of Zeiatit gabbroic rocks in the Southern Eastern Desert of Egypt: Discrimination of arc-related Neoproterozoic gabbros. 2019 , 150, 239-263	5
755	Formation of the Lubei magmatic Nillu deposit in a post-subduction setting in East Tianshan, North West China. 2019 , 104, 356-372	5
754	Heterogeneous Oceanic Arc Volcanic Rocks in the South Qilian Accretionary Belt (Qilian Orogen, NW China). 2019 , 60, 85-116	24
753	Evidence for a Moist to Wet Source Transition Throughout the Oman-UAE Ophiolite, and Implications for the Geodynamic History. 2019 , 20, 651-672	3
75 ²	Second-stage Caribbean Large Igneous Province volcanism: The depleted Icing on the enriched Cake. 2019 , 509, 45-63	14
751	Geochemical and SIMS U-Pb rutile and LAICPIMS U-Pb zircon geochronological evidence of the tectonic evolution of the Mudanjiang Ocean from amphibolites of the Heilongjiang Complex, NE China. 2019 , 69, 25-44	25
750	Stochastic modeling of 3-D compositional distribution in the crust with Bayesian inference and application to geoneutrino observation in Japan. 2019 , 288, 37-57	7
749	Late Paleozoic Accretionary and Collisional Processes along the Southern Peri-Siberian Orogenic System: New Constraints from Amphibolites within the Irtysh Complex of Chinese Altai. 2019 , 127, 241-262	7
748	A sulfide perspective on iron isotope fractionation during ocean island basalt petrogenesis. 2019 , 245, 59-78	13
747	A Neoproterozoic hyper-extended margin associated with Rodinia's demise and Gondwana's build-up: The Araguaia Belt, central Brazil. 2019 , 66, 43-62	17
746	Dunite channels within a harzburgite layer from the Horoman peridotite complex, Japan: Possible pathway for magmas. 2019 , 28, e12279	2
745	Along-arc variations in isotope and trace element compositions of Paleogene gabbroic rocks in the Gangdese batholith, southern Tibet. 2019 , 324-325, 877-892	16
744	Modelling the HafniumBleodymium Evolution of Early Earth: A Study from West Greenland. 2019 , 60, 177-197	8
743	Provenance and depositional environment of organic-rich calcareous black shale of the Late Ordovician Macasty Formation, western Anticosti Basin, eastern Canada. 2019 , 56, 321-334	3
742	Effects of melting, subduction-related metasomatism, and sub-solidus equilibration on the distribution of water contents in the mantle beneath the Rio Grande Rift. 2019 , 266, 351-381	9
741	Ages and sources of mantle eclogites: ID-TIMS and in situ MC-ICPMS Pb-Sr isotope systematics of clinopyroxene. 2019 , 503, 15-28	15
740	The dynamic life of an oceanic plate. 2019 , 760, 107-135	20

739	Different magma sources and evolutions of white and black pumice from the middle Okinawa Trough: Evidence from major, trace elements and SrNdP isotopes. 2019 , 54, 206-220	8
738	Magmathagma interaction in the mantle recorded by megacrysts from Cenozoic basalts in eastern China. 2019 , 61, 675-691	5
737	Petrogenesis of the HarsinBahneh serpentinized peridotites along the Zagros suture zone, western Iran: new evidence for mantle metasomatism due to oceanic slab flux. 2019 , 156, 772-800	7
736	Water in the upper mantle and deep crust of eastern China: concentration, distribution and implications. 2019 , 6, 125-144	52
735	Asymmetry in oceanic crustal structure of the South China Sea basin and its implications on mantle geodynamics. 2020 , 62, 840-858	8
734	Sr, Nd, Pb and trace element systematics of the New Caledonia harzburgites: Tracking source depletion and contamination processes în a SSZ setting. 2020 , 11, 37-55	21
733	OpxIIpx exsolution textures in lherzolites of the Cretaceous Purang Ophiolite (S. Tibet, China), and the deep mantle origin of Neotethyan abyssal peridotites. 2020 , 62, 665-682	9
732	The evolution of the mantle source beneath Mt. Etna (Sicily, Italy): from the 600 ka tholeiites to the recent trachybasaltic magmas. 2020 , 62, 338-359	10
731	Iron and magnesium isotopic compositions of subduction-zone fluids and implications for arc volcanism. 2020 , 278, 376-391	20
730	Elemental and radiogenic isotope perspective on formation and transformation of cratonic lower crust: Central Slave craton (Canada). 2020 , 278, 78-93	4
729	Archean granitoids: classification, petrology, geochemistry and origin. 2020 , 489, 15-49	13
728	Melt migration and melt-rock reaction in the Alpine-Apennine peridotites: Insights on mantle dynamics in extending lithosphere. 2020 , 11, 151-166	22
727	Cretaceous tectonic evolution of the Neo-Tethys in Central Iran: Evidence from petrology and age of the Nain-Ashin ophiolitic basalts. 2020 , 11, 57-81	20
726	Petrogenesis and mantle source characteristics of the late Cenozoic Baekdusan (Changbaishan) basalts, North China Craton. 2020 , 78, 156-171	11
725	Petrogenesis and tectonic significance of Neoproterozoic meta-basites and meta-granitoids within the central Dabie UHP zone, China: Geochronological and geochemical constraints. 2020 , 78, 1-19	7
724	Petrogenesis of Late Triassic high-Mg diorites and associated granitoids with implications for Paleo-Tethys evolution in the northeast Tibetan Plateau. 2020 , 132, 955-976	2
723	Importance of the size and distribution of chemical heterogeneities in the mantle source to the variations of isotope ratios and trace element abundances in mid-ocean ridge basalts. 2020 , 268, 383-404	6
722	Lithium isotopes may trace subducting slab signatures in Aleutian arc lavas and intrusions. 2020 , 278, 322-339	4

721	evolution of the Ligurian accretionary wedge: constraints from mlanges and broken formations. 2020, 177, 562-574	13
720	Barium isotopic composition of the mantle: Constraints from carbonatites. 2020 , 278, 235-243	16
719	Petrogenesis and tectonic implications of Early Cretaceous volcanic rocks from the Shanghulin Basin within the north-western Great Xing'an Range, NE China: Constraints from geochronology and geochemistry. 2020 , 55, 3476-3496	7
718	Widespread Os-isotopically ultradepleted mantle domains in the Paleo-Asian oceanic upper mantle: evidence from the Paleozoic Tianshan ophiolites (NW China). 2020 , 109, 1421-1438	2
717	The petrogenetic interrelationship of Wajilitag complex components in the early Permian Tarim large igneous province, NW China. 2020 , 62, 1343-1357	1
716	Heterogeneous mantle melting and magmatic processes at the East Pacific Rise (2.6B.1°S): Evidence from mid-ocean ridge basalt geochemistry and SrMdPb isotopes. 2020 , 62, 1387-1405	
715	Makran ophiolitic basalts (SE Iran) record Late Cretaceous Neotethys plume-ridge interaction. 2020 , 62, 1677-1697	5
7 1 4	Initial 87Sr/86Sr as a sensitive tracer of Archaean crust-mantle evolution: Constraints from igneous and sedimentary rocks in the western Dharwar Craton, India. 2020 , 337, 105523	7
713	Geochemical characteristics of basalts related to incipient oceanization: The example from the Alpine-Tethys OCTs. 2020 , 32, 75-88	9
712	Geochemical constraints on the origin of late Cenozoic basalts in the Mt. Changbai volcanic field, NE China: evidence for crustal recycling. 2020 , 62, 2125-2145	3
711	Depletion ages and factors of MORB mantle sources. Earth and Planetary Science Letters, 2020, 530, 115926	3
710	Formation of the Ce-Nd mantle array: Crustal extraction vs. recycling by subduction. <i>Earth and Planetary Science Letters</i> , 2020 , 530, 115941	7
709	The epilogue of Paleo-Tethyan tectonics in the South China Block: Insights from the Triassic aluminous A-type granitic and bimodal magmatism. 2020 , 190, 104129	6
708	Lead isotope evolution of the Central European upper mantle: Constraints from the Bohemian Massif. 2020 , 11, 925-942	8
707	Major/trace elements and SrNdPb isotope systematics of lavas from lakes Barombi Mbo and Barombi Koto in the Kumba graben, Cameroon volcanic line: Constraints on petrogenesis. 2020 , 161, 103675	6
706	Melting of recycled ancient crust responsible for the Gutenberg discontinuity. 2020 , 11, 172	5
7 ⁰ 5	Neoarchean arc-back arc subduction system in the Indian Peninsula: Evidence from mafic magmatism in the Shimoga greenstone belt, western Dharwar Craton. 2020 , 55, 5308-5329	O
704	Anomalous 182W in high 3He/4He ocean island basalts: Fingerprints of Earth core?. 2020 , 271, 194-211	45

703	Re-interpretation of volcanic units from San Ambrosio Island and Gonzalez Islet, Southeast Pacific, Chile: Using new textural and geochemical data. 2020 , 98, 102475	
702	Compositional heterogeneity and melt transport in mantle beneath Mid-Atlantic Ridge constrained by peridotite, dunite, and wehrlite from Atlantis Massif. 2020 , 354-355, 105364	3
701	Geochemical and Sr-Nd isotopic evidence for petrogenesis and geodynamic setting of Lower-Middle Triassic volcanogenic rocks from central Greece: Implications for the Neotethyan Pindos ocean. 2020 , 114, 39-56	3
700	Evidence of subduction-related components in sapphirine-bearing gabbroic dykes (Finero phlogopiteperidotite): Insights into the source of the Triassiculurassic magmatism at the EuropeAfrica boundary. 2020 , 356-357, 105366	5
699	Markov chain Monte Carlo inversion of mantle temperature and source composition, with application to Reykjanes Peninsula, Iceland. <i>Earth and Planetary Science Letters</i> , 2020 , 532, 116007	9
698	A multi-proxy investigation of mantle oxygen fugacity along the Reykjanes Ridge. <i>Earth and Planetary Science Letters</i> , 2020 , 531, 115973	8
697	Syn-exhumation magmatism during continental collision: Geochemical evidence from the early Paleozoic Fushui mafic rocks in the Qinling orogen, Central China. 2020 , 352-353, 105318	3
696	Cryptic metasomatic agent measured in situ in Variscan mantle rocks: Melt inclusions in garnet of eclogite, Granulitgebirge, Germany. 2020 , 38, 207-234	11
695	Calcium isotopic fractionation during plate subduction: Constraints from back-arc basin basalts. 2020 , 270, 379-393	17
694	Melting and metasomatism/refertilisation processes in the Patagonian sub-continental lithospheric mantle: A review. 2020 , 354-355, 105324	7
693	Constraining the early evolution of Venus and Earth through atmospheric Ar, Ne isotope and bulk K/U ratios. 2020 , 339, 113551	29
692	Calcium isotope compositions of mantle pyroxenites. 2020 , 270, 144-159	11
691	Constraints on mantle evolution from Ce-Nd-Hf isotope systematics. 2020 , 272, 36-53	13
690	Petrogenesis of Early Cretaceous adakites in Tongguanshan CuAu polymetallic deposit, Tongling region, Eastern China. 2020 , 126, 103717	3
689	Application of a Premelting Model to the Lithosphere-Asthenosphere Boundary. 2020 , 21, e2020GC009338	2
688	Feedback of Slab Distortion on Volcanic Arc Evolution: Geochemical Perspective From Late Cenozoic Volcanism in SW Japan. 2020 , 125, e2019JB019143	1
687	Carnian (Upper Triassic) Lavas and Tuffites from the Mersin Mlange: Evidence for Intraoceanic Arc Rifting in the Northern Neotethys. 2020 , 128, 445-464	3
686	Petrogenetic processes at the tipping point of plate tectonics: Hf-O isotope ternary modelling of Earth's last TTG to sanukitoid transition. <i>Earth and Planetary Science Letters</i> , 2020 , 551, 116558	11

685	Melt-Lithosphere Interaction Controlled Compositional Variations in Mafic Dikes from Fujian Province, Southeastern China. 2020 , 1	О
684	Trace element fractionation and isotope ratio variation during melting of a spatially distributed and lithologically heterogeneous mantle. <i>Earth and Planetary Science Letters</i> , 2020 , 552, 116594	2
683	Late Cretaceous calc-alkaline and adakitic magmatism in the Sistan suture zone (Eastern Iran): Implications for subduction polarity and regional tectonics. 2020 , 204, 104588	2
682	Long-term storage of subduction-related volatiles in Northern Victoria Land lithospheric mantle: Insight from olivine-hosted melt inclusions from McMurdo basic lavas (Antarctica). 2020 , 378-379, 105826	6
681	Late Cenozoic volcanism in the Almaludag region, Azerbaijan province, northwest Iran: Evidence for post-collisional extension. 2020 , 141-142, 101779	0
680	Hydrothermal genesis of Nb mineralization in the giant Bayan Obo REE-Nb-Fe deposit (China): Implicated by petrography and geochemistry of Nb-bearing minerals. 2020 , 348, 105864	4
679	Ancient helium and tungsten isotopic signatures preserved in mantle domains least modified by crustal recycling. 2020 , 117, 30993-31001	22
678	Redox state of Earth's magma ocean and its Venus-like early atmosphere. 2020 , 6,	25
677	The effects of solid-solid phase equilibria on the oxygen fugacity of the upper mantle. 2020 , 105, 1445-1471	8
676	Volcanic rocks from the Central and Southern Palawan Ophiolites, Philippines: Tectonic and mantle heterogeneity constraints. 2020 , 4, 100038	O
675	Mineralogy and trace elements variation of subsurface cretaceous basalts in the Eastern Tunisian margin and the Pelagic Sea: New data and geodynamic implication. 2020 , 172, 104006	0
674	Coexisting Late Cenozoic Potassic and Sodic Basalts in NE China: Role of Recycled Oceanic Components in Intraplate Magmatism and Mantle Heterogeneity. 2020 , 2020,	O
673	Thermal state of the upper mantle and the origin of the Cambrian-Ordovician ophiolite pulse: Constraints from ultramafic dikes of the Hayachine-Miyamori ophiolite. 2020 , 105, 1778-1801	3
672	Evolution of Subduction Dynamics beneath West Avalonia in Middle to Late Ordovician Times. 2020 , 2020,	3
671	Plate tectonics: What, where, why, and when?. 2020, 100, 3-3	32
670	K/U of the MORB Source and Silicate Earth. 2020 , 125, e2020JB020245	4
669	Petrogenesis and tectonic implications of Late Mesozoic volcanic rocks in the northern and central Great Xing'an Range, NE China: Constraints from geochronology and geochemistry. 2020 , 55, 8282-8308	5
668	Amalgamation between the Yangtze and Cathaysia blocks in South China: Evidence from the ophiolite geochemistry. 2020 , 350, 105893	4

667	Multiple metasomatism of the lithospheric mantle beneath the northeastern North China Craton. 2020 , 374-375, 105719	2
666	Permian post-collisional basic magmatism from Corsica to the Southeastern Alps. 2020 , 376-377, 105733	5
665	Ultra-depleted melt refertilization of mantle peridotites in a large intra-transform domain (Doldrums Fracture Zone; 78°N, Mid Atlantic Ridge). 2020 , 374-375, 105698	3
664	Speculations on the Generation and Movement of Komatiites. 2020 , 61,	6
663	Cryptic alkaline magmatism in the oceanic Caribbean arc (Camag@y area, Cuba). 2020, 376-377, 105736	4
662	Tracking the magmatic response to subduction initiation in the forearc mantle wedge: Insights from peridotite geochemistry of the Guleman and K~z~ldalophiolites, Southeastern Turkey. 2020 , 376-377, 105737	1
661	Serpentinization of New Caledonia peridotites: from depth to (sub-)surface. 2020 , 175, 1	7
660	Evolution of Magmatism in the New Hebrides Island Arc and in Initial Back-Arc Rifting, SW Pacific. 2020 , 21, e2020GC008946	O
659	Recycled arc mantle recovered from the Mid-Atlantic Ridge. 2020 , 11, 3887	14
658	Isotopic Evidence for Multiple Recycled Sulfur Reservoirs in the Mangaia Mantle Plume. 2020 , 21, e2020GCC	09 9 81
657	Sr isotopes in arcs revisited: tracking slab dehydration using 88/86Sr and 87Sr/86Sr systematics of arc lavas. 2020 , 288, 101-119	9
656	Testing oceanic crustmantle decoupling by SrNdHfDs isotopes of Neo-Tethyan ophiolites. 2020 , 376-377, 105757	3
655	The distinctive peridotite of Taww, Northern flank of Jabal Nakhl, Oman. 2020, 376-377, 105758	
654	Age and petrogenesis of the Yingyangguan volcanic rocks: Implications on constraining the boundary between Yangtze and Cathaysia blocks, South China. 2020 , 376-377, 105775	1
653	Lithospheric modification by carbonatitic to alkaline melts and deep carbon cycle: Insights from peridotite xenoliths of eastern China. 2020 , 378-379, 105789	
652	Middle Paleozoic intermediate-mafic rocks of the Tsoroidog Uullaccretionary complex, Central Mongolia: Petrogenesis and tectonic implications. 2020 , 376-377, 105795	3
651	Role of magma injection and mixing in the formation of chromitite in Archean anorthosites: Evidence from the Sittampundi Complex, southern India. 2020 , 350, 105914	2
650	Estimates of the Temperature and Melting Conditions of the Carpathian-Pannonian Upper Mantle From Volcanism and Seismology. 2020 , 21, e2020GC009334	2

649	The First 10 Million Years of Rear-Arc Magmas Following Backarc Basin Formation Behind the Izu Arc. 2020 , 21, e2020GC009114	1
648	Geochemistry and Petrogenesis of Volcanic Rocks from the Continent-Ocean Transition Zone in Northern South China Sea and Their Tectonic Implications. 2020 , 19, 1051-1061	1
647	Crustal Accretion in a Slow Spreading Back-Arc Basin: Insights From the Mado Megamullion Oceanic Core Complex in the Shikoku Basin. 2020 , 21, e2020GC009199	9
646	A Lithosphere-Asthenosphere Boundary and Partial Melt Estimated Using Marine Magnetotelluric Data at the Central Middle Atlantic Ridge. 2020 , 21, e2020GC009177	12
645	Petrogenesis of heterogeneous mantle peridotites with Ni-rich olivine from the Pujada Ophiolite, Philippines. 2020 , 4, 100039	1
644	The Boninite-like Dolerites in the Xigaze Ophiolites, Tibet: Similar to the MORB-like Dolerites. 2020 , 94, 73-75	
643	Early Cretaceous Plume R idge Interaction Recorded in the Band-e-Zeyarat Ophiolite (North Makran, Iran): New Constraints from Petrological, Mineral Chemistry, and Geochronological Data. 2020 , 10, 1100	4
642	Origins of Major Element, Trace Element, and Isotope Garnet Signatures in Mid-Ocean Ridge Basalts. 2020 , 125, e2020JB019612	4
641	Ambient seismic noise imaging of the lowermost mantle beneath the North Atlantic Ocean. 2020 , 222, 1339-1351	11
640	Origin of isolated seamounts in the Canary Basin (East Atlantic): The role of plume material in the origin of seamounts not associated with hotspot tracks. 2020 , 32, 390-398	6
639	Revisiting Pb isotope signatures of Nifle alloy hosted by antigorite serpentinite from the Josephine Ophiolite, USA. 2020 , 115, 21-28	O
638	Causes and Consequences of Wehrlitization Beneath a Trans-Lithospheric Fault: Evidence From Mesozoic Basalt-Borne Wehrlite Xenoliths From the Tan-Lu Fault Belt, North China Craton. 2020 , 125, e2019JB019084	1
637	Late Paleozoic Chingiz and Saur Arc Amalgamation in West Junggar (NW China): Implications for Accretionary Tectonics in the Southern Altaids. 2020 , 39, e2019TC005781	8
636	Metasomatic Evolution of Coesite-Bearing Diamondiferous Eclogite from the Udachnaya Kimberlite. 2020 , 10, 383	5
635	Origin of paleosubduction-modified mantle for Late Cretaceous (~100 Ma) diabase in northern Guangdong, South China: Geochronological and geochemical evidence. 2020 , 370-371, 105603	2
634	Geochemical and isotopic compositions of East Rift lavas from the Manus Basin: Implications for the origin of subduction components. 2020 , 55, 7429-7442	O
633	Impact of upper mantle convection on lithosphere hyper-extension and subsequent convergence-induced subduction. 2020 ,	
632	Forearc origin for Coast Range Ophiolites inferred from osmium isotopes and highly siderophile elements. 2020 , 550, 119723	4

631	Insights Into the Origins and Compositions of Mantle Plumes: A Comparison of Galþagos and Hawai'i. 2020 , 21, e2019GC008887		10
630	Changing Mantle Sources and the Effects of Crustal Passage on the Steens Basalt, SE Oregon: Chemical and Isotopic Constraints. 2020 , 21, e2020GC008910		6
629	Vestiges of a fore-arc oceanic crust in the Western Mediterranean: Geochemical constraints from North-East Algeria. 2020 , 370-371, 105649		3
628	Variable water input controls evolution of the Lesser Antilles volcanic arc. 2020 , 582, 525-529		31
627	Late Paleoproterozoic to Early Mesoproterozoic Mafic Magmatism in the SW Yangtze Block: Mantle Plumes Associated With Nuna Breakup?. 2020 , 125, e2019JB019260		5
626	Lithospheric memory of subduction in mantle pyroxenite xenoliths from rift-related basalts. <i>Earth and Planetary Science Letters</i> , 2020 , 544, 116365	5.3	9
625	Various Ages of Recycled Material in the Source of Cenozoic Basalts in SE China: Implications for the Role of the Hainan Plume. 2020 , 61,		1
624	Silurian to Early Devonian arc magmatism in the western Sakarya Zone (NW Turkey), with inference to the closure of the Rheic Ocean. 2020 , 370-371, 105641		7
623	Petrological and noble gas features of Lascar and Lastarria volcanoes (Chile): Inferences on plumbing systems and mantle characteristics. 2020 , 370-371, 105615		3
622	Calcium isotopic signatures of depleted mid-ocean ridge basalts from the northeastern Pacific. 2020 , 38, 1476-1487		3
621	Vein-plus-wall rock melting model for the origin of Early Paleozoic alkali diabases in the South Qinling Belt, Central China. 2020 , 370-371, 105619		4
620	From Decompression Melting to Mantle-Wedge Refertilization and Metamorphism: Insights from Peridotites of the Alag Khadny Accretionary Complex (SW Mongolia). 2020 , 10, 396		1
619	Magnesium and zinc isotope evidence for recycled sediments and oceanic crust in the mantle sources of continental basalts from eastern China. 2020 , 370-371, 105627		6
618	Seismic Attenuation and Velocity Measurements of the Uppermost Mantle Beneath the Central and Eastern United States and Implications for the Temperature of the North American Lithosphere. 2020 , 125, e2019JB017728		1
617	Sulfur abundance and heterogeneity in the MORB mantle estimated by copper partitioning and sulfur solubility modelling. <i>Earth and Planetary Science Letters</i> , 2020 , 538, 116169	5.3	8
616	Dynamics of a chemically pulsing mantle plume. <i>Earth and Planetary Science Letters</i> , 2020 , 537, 116182	5.3	8
615	Complex Neoarchean mantle metasomatism: Evidence from sanukitoid diorites-monzodiorites-granodiorites in the northeastern North China Craton. 2020 , 342, 105692		12
614	Co-existing low-Ti and high-Ti dolerites in two large dykes in the Gap Dyke swarm, southeastern Karoo Basin (South Africa). 2020 , 123, 19-34		1

613	Zinc isotopic systematics of the South China Sea basalts and implications for its behavior during plate subduction. 2020 , 541, 119582		5
612	Petrology and geochemistry of early Carboniferous volcanic rocks in the Xinyuan region of western Tianshan: Implications for magma sources. 2020 , 364-365, 105505		1
611	Archean, highly unradiogenic lead in shallow cratonic mantle. 2020 , 48, 584-588		2
610	Aqueous fluids are effective oxidizing agents of the mantle in subduction zones. 2020 , 175, 1		19
609	The Solidus and Melt Productivity of Nominally Anhydrous Martian Mantle Constrained by New High Pressure-Temperature Experiments Implications for Crustal Production and Mantle Source Evolution. 2020 , 125, e2019JE006078		3
608	Mantle and Recycled Oceanic Crustal Components in Mantle Xenoliths From Northeastern China and their Mantle Sources. 2020 , 125, e2019JB018232		3
607	Emplacement of Young Island Arc Crust Over Older Mantle Along a Cratonic Foreland: Constraints From Multiple Isotopes and Elemental Geochemistry. 2020 , 125, e2019JB018550		2
606	Thermal Analysis, Compressibility, and Decomposition of Synthetic Bastn\(\mathbb{B}\)ite-(La) to Lanthanum Oxyfluoride. 2020 , 10, 212		O
605	The Effect of Water on Ionic Conductivity in Olivine. 2020 , 125, e2019JB019313		11
604	Significant 44/40Ca variations between carbonate- and clay-rich marine sediments from the Lesser Antilles forearc and implications for mantle heterogeneity. 2020 , 276, 239-257		6
603	Geochemistry and petrogenesis of the post-collisional high-K calc-alkaline magmatic rocks in Tengchong, SE Tibet. 2020 , 193, 104309		5
602	Three major types of subcontinental lithospheric mantle beneath the Variscan orogen in Europe. 2020 , 362-363, 105467		7
601	Early cretaceous transformation from Pacific to Neo-Tethys subduction in the SW Pacific Ocean: Constraints from Pb-Sr-Nd-Hf isotopes of the Philippine arc. 2020 , 285, 21-40		3
600	The Moroccan Anti-Atlas ophiolites: Timing and melting processes in an intra-oceanic arc-back-arc environment. 2020 , 86, 182-202		19
599	A Role for Subducted Oceanic Crust in Generating the Depleted Mid-Ocean Ridge Basalt Mantle. 2020 , 21, e2020GC009148		4
598	HTŪP crustal syntectonic anatexis as a source of the Permian magmatism in the Eastern Southern Alps: evidence from xenoliths in the Euganean trachytes (NE Italy). 2020 , 177, 1211-1230		3
597	Elemental constraints on the amount of recycled crust in the generation of mid-oceanic ridge basalts (MORBs). 2020 , 6, eaba2923		10
596	Geochemistry of Etendeka magmatism: Spatial heterogeneity in the Tristan-Gough plume head. Earth and Planetary Science Letters, 2020 , 535, 116123	5.3	3

595	Multi-stage crustal melting from Late Permian back-arc extension through Middle Triassic continental collision to Late Triassic post-collisional extension in the East Kunlun Orogen. 2020 , 360-361, 105446	8
594	Temporal Evolution of Proto-Izu B oninMariana Arc Volcanism over 10 Myr: Constraints from Statistical Analysis of Melt Inclusion Compositions. 2020 , 61,	7
593	LitMod2D_2.0: An Improved Integrated Geophysical-Petrological Modeling Tool for the Physical Interpretation of Upper Mantle Anomalies. 2020 , 21, e2019GC008777	6
592	Genesis of Recent Mafic Magmatism in the Taupo Volcanic Zone, New Zealand: Insights into the Birth and Death of Very Large Volume Rhyolitic Systems?. 2020 , 61,	10
591	Metasomatism and Hydration of the Oceanic Lithosphere: a Case Study of Peridotite Xenoliths from Samoa. 2020 , 61,	10
590	Shear attenuation and anelastic mechanisms in the central Pacific upper mantle. <i>Earth and Planetary Science Letters</i> , 2020 , 536, 116148	12
589	Suprasubduction-zone origin of the podiform chromitites of the Bir Tuluhah ophiolite, Saudi Arabia, during Neoproterozoic assembly of the Arabian Shield. 2020 , 360-361, 105439	8
588	Rifting of the Kaapvaal Craton during the early Paleoproterozoic: Evidence from magmatism in the western Transvaal subbasin (South Africa). 2020 , 342, 105687	4
587	Remnants of a Middle Triassic island arc on western margin of South China Block: Evidence for bipolar subduction of the Paleotethyan Ailaoshan Ocean. 2020 , 360-361, 105447	10
586	Geochronological and Geochemical Constraints on the Petrogenesis of Early Paleoproterozoic (2.40-2.32 Ga) Nb-Enriched Mafic Rocks in Southwestern Yangtze Block and Its Tectonic Implications. 2020 , 31, 35-52	9
585	Geochemistry of lavas from Aegina and Poros (Aegean Arc, Greece): Distinguishing upper crustal contamination and source contamination in the Saronic Gulf area. 2020 , 358-359, 105416	4
584	Barium isotope systematics of subduction zones. 2020 , 275, 1-18	18
583	Mesozoic lithospheric modification and replacement beneath the Cathaysia Block: Mineral chemistry and water contents of the Daoxian peridotite xenoliths. 2020 , 358-359, 105385	1
582	Dehydration Melting Below the Undersaturated Transition Zone. 2020 , 21, e2019GC008712	6
581	Pressure Dependence of Proton Incorporation and Water Solubility in Olivine. 2020 , 125, e2019JB018813	3
580	Diabase dykes from Boʿlzkale (Brum), Central Anatolia: Geochemical insights into the geodynamical evolution of the northern branch of Neotethys. 2020 , 80, 125602	1
579	Petrogenesis of mafic dykes from the western Bastar craton of Central India and their relation to outgrowth of Columbia supercontinent. 2020 , 114, 243-262	4
578	A Neoarchean arc-backarc pair in the Linshan Massif, southern North China Craton. 2020 , 341, 105649	8

577	Geochemistry and geochronology of Carboniferous magmatic rocks in the Sawur Mountains, northern West Junggar, NW China: implications for accretionary orogeny. 2020 , 109, 605-630	4
576	Geotectonic significance of the Neoproterozoic ophiolitic metagabbros of Muiswirab area, South Eastern Desert, Egypt: constraints from their mineralogical and geochemical characteristics. 2020 , 39, 887-910	
575	The Neodymium Stable Isotope Composition of the Oceanic Crust: Reconciling the Mismatch Between Erupted Mid-Ocean Ridge Basalts and Lower Crustal Gabbros. 2020 , 8,	4
574	Tholeiitic- and boninite-series metabasites of the Nov'Māto Unit and northern part of the ZBāh Unit (Orlicaāieāik Dome, Bohemian Massif): petrogenesis and tectonic significance. 2020 , 109, 1247-1271	1
573	Insights into the petrogenesis of an intraplate volcanic province: Sr-Nd-Pb-Hf isotope geochemistry of the Bathymetrists Seamount Province, eastern equatorial Atlantic. 2020 , 544, 119599	
572	Iron isotope fractionation in hydrous basaltic magmas in deep crustal hot zones. 2020 , 279, 29-44	3
571	The Ganj Complex reinterpreted as a Late Cretaceous volcanic arc: Implications for the geodynamic evolution of the North Makran domain (southeast Iran). 2020 , 195, 104306	11
570	Subduction-related melt refertilisation and alkaline metasomatism in the Eastern Transylvanian Basin lithospheric mantle: Evidence from mineral chemistry and noble gases in fluid inclusions. 2020 , 364-365, 105516	9
569	Polymineralic inclusions as tracers of multistage metasomatism in a paleo mantle wedge. 2020 , 364-365, 105517	0
568	A telltale signature of Archean lithospheric mantle in the Paran Lontinental flood basalts genesis. 2020 , 364-365, 105519	2
567	Magmatic Fluids Implicated in the Formation of Propylitic Alteration: Oxygen, Hydrogen, and Strontium Isotope Constraints from the Northparkes Porphyry Cu-Au District, New South Wales, Australia. 2020 , 115, 729-748	14
566	Assessing Origins of End-Triassic Tholeiites From Eastern North America Using Hafnium Isotopes. 2020 , 21, e2020GC008999	4
565	The complex life cycle of oceanic lithosphere: A study of Yarlung-Zangbo ophiolitic peridotites, Tibet. 2020 , 277, 175-191	24
564	Evolution of mantle peridotites from the Luobusa ophiolite in the Tibetan Plateau: Sr-Nd-Hf-Os isotope constraints. 2020 , 362-363, 105477	8
563	Geochemistry and tectonic significance of the Fannuj-Maskutan SSZ-type ophiolite (Inner Makran, SE Iran). 2020 , 62, 2077-2104	14
562	Geochemistry, Sr-Nd-Pb Isotopic Compositions and Zircon U-Pb Geochronology of Neoproterozoic Mafic Dyke in the Douling Complex, South Qinling Belt, China. 2020 , 31, 237-248	6
561	Using high-resolution Pb isotopes to unravel the petrogenesis of Sakurajima volcano, Japan. 2020 , 82, 1	2
560	Mixing of heterogeneous, high-MgO, plume-derived magmas at the base of the crust in the Central lapetus Magmatic Province (Ma 610-550): Origin of parental magmas to a global LIP event. 2020 , 364-365, 105535	1

559	Thermoelastic properties of MgSiO3-majorite at high temperatures and pressures: A first principles study. 2020 , 303, 106491	1
558	Geochronology and geochemistry of Neoproterozoic Hamamid metavolcanics hosting largest volcanogenic massive sulfide deposits in Eastern Desert of Egypt: Implications for petrogenesis and tectonic evolution. 2020 , 344, 105751	7
557	The Mantle Transition Zone Hosts the Missing HIMU Reservoir Beneath Eastern China. 2020, 47, e2020GL087	260
556	Petrogenesis of the meta-igneous rocks of the Sierra El Arco and coeval magmatic rocks in Baja California: Middle Jurassic-Early Cretaceous (166-140 Ma) island arc magmatism of NW Mxico. 2021 , 63, 1153-1180	4
555	Late Palaeozoic arly Mesozoic southward subduction of the Mongol Okhotsk oceanic slab: geochronological, geochemical, and Hf isotopic evidence from intrusive rocks in the Erguna Massif (NE China). 2021 , 63, 1262-1287	2
554	A Disequilibrium Reactive Transport Model for Mantle Magmatism. 2021 , 61,	4
553	Olivine melilitites, mantle xenoliths, and xenocrysts of the Takarindiona district: Petrogenesis, magmatic evolution, and the sub-continental lithospheric mantle of east-central Madagascar. 2021 , 174, 104059	1
552	Silica-rich spinel harzburgite residues formed by fractional hybridization-melting of the intra-oceanic supra-subduction zone mantle: New evidence from TUBAF seamount peridotites. 2021 , 293, 477-506	6
551	New Concepts in Ophiolites, Oceanic Lithosphere and Podiform Chromites. 2021 , 968-993	2
550	The global melt inclusion C/Ba array: Mantle variability, melting process, or degassing?. 2021 , 293, 525-543	3
549	Geochronological and geochemical constraints on the petrogenesis of late Mesoproterozoic mafic and granitic rocks in the southwestern Yangtze Block. 2021 , 12, 39-52	4
548	Large-scale asymmetry in thickness of crustal accretion at the Southeast Indian Ridge due to deep mantle anomalies. 2021 , 133, 1057-1070	
547	Effects of sulfide composition and melt H2O on sulfur content at sulfide saturation in basaltic melts. 2021 , 559, 119913	3
546	Crystallization and Segregation of Syenite in Shallow Mafic Sills: Insights from the San Rafael Subvolcanic Field, Utah. 2021 , 61,	O
545	Geochemical and geochronological record of the Andaman Ophiolite, SE Asia: From back-arc to forearc during subduction polarity reversal?. 2021 , 380-381, 105853	O
544	Subduction-Driven Volatile Recycling: A Global Mass Balance. 2021 , 49,	23
543	Paleogeography of Late Jurassic large-igneous-province activity in the Paleo-Pacific Ocean: Constraints from the Mikabu greenstones and Chichibu accretionary complex, Kanto Mountains, Central Japan. 2021 , 89, 177-192	3
542	Lower crust-mantle interactions in the massif-type anorthosite formation: New evidence from zircon U-Pb-Hf-O isotopes of the Neoproterozoic Kadavur Complex, southern India. 2021 , 380-381, 105836	

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541	Petrogenesis of the early Cretaceous intra-plate basalts from the Western North China Craton: Implications for the origin of the metasomatized cratonic lithospheric mantle. 2021 , 380-381, 105887	3
540	Tectono-magmatic evolution of Tethyan oceanic lithosphere in supra subduction zone fore arc regime: Geochemical fingerprints from crust-mantle sections of Naga Hills Ophiolite. 2021 , 12, 101096	6
539	The formation of shoshonitic magma and its relationship to porphyry-type mineralisation: the Maronia pluton in NE Greece. 2021 , 380-381, 105911	3
538	Scandium: Ore deposits, the pivotal role of magmatic enrichment and future exploration. 2021 , 128, 103906	9
537	Geochemistry and petrogenesis of Quaternary volcanic rocks from Ulleung Island, South Korea. 2021 , 380-381, 105874	2
536	Geochemical evidence for forearc metasomatism of peridotite in the Xigaze ophiolite during subduction initiation in Neo-Tethyan Ocean, south to Tibet. 2021 , 380-381, 105896	6
535	Magmatic responses to Cretaceous subduction and tearing of the paleo-Pacific Plate in SE China: An overview. 2021 , 212, 103448	16
534	Magmatic Response to Subduction Initiation, Part II: Boninites and Related Rocks of the Izu-Bonin Arc From IODP Expedition 352. 2021 , 22,	17
533	Formation of ~2.5 Ga Sittampundi anorthosite complex in southern India: Implications to lower crustal stabilization of the Dharwar Craton. 2021 , 354, 106012	4
532	Boron isotopic signatures of melt inclusions from North Iceland reveal recycled material in the Icelandic mantle source. 2021 , 294, 273-294	3
531	Lithospheric extension in response to subduction of the Paleo-Pacific Plate: Insights from Early Jurassic intraplate volcanic rocks in the Sk2 Borehole, Songliao Basin, NE China. 2021 , 380-381, 105871	3
530	Body Wave Speed Structure of Eastern North America. 2021 , 22,	3
529	Melt extraction and reaction in the forearc mantle: Constraints from trace elements and isotope geochemistry of ultra-refractory peridotites of the New Caledonia Peridotite Nappe. 2021 , 380-381, 105882	6
528	Simultaneous In Situ Determination of Pb Isotope Ratios and Trace Element Concentrations in Melt Inclusions by LASS-ICP-MS. 2021 , 22,	1
527	Sub-basin scale inhomogeneity of mantle in the South China Sea revealed by magnesium isotopes. 2021 , 66, 740-748	5
526	Oceanic lithosphere heterogeneity in the eastern Paleo-Tethys revealed by PGE and ReDs isotopes of mantle peridotites in the Jinshajiang ophiolite. 2021 , 12, 101114	1
525	Extreme Heterogeneity in Mid-Ocean Ridge Mantle Revealed in Lavas From the 8°20?N Near-Axis Seamount Chain. 2021 , 22, e2020GC009322	3
524	The effects of selective contamination on the early Paleozoic intracontinental mafic rocks in the South China Block: New insights from high-180 zircon. 2021 , 380-381, 105854	1

523	The Variscan subduction inheritance in the Southern Alps Sub-Continental Lithospheric Mantle: Clues from the Middle Triassic shoshonitic magmatism of the Dolomites (NE Italy). 2021 , 380-381, 105856	3
522	WITHDRAWN: Petrogenesis of heterogeneous mantle peridotites with Ni-rich olivine from the Pujada Ophiolite, Philippines. 2021 , 205, 104596	
521	Growth of an accretionary complex in the southern Chinese Altai: Insights from the Palaeozoic Kekesentao ophiolitic mlange and surrounding turbidites. 2021 , 56, 265-283	3
520	Geochemical evidence of mixing between A-type rhyolites and basalts from Southern Lebombo, South Africa: Implications for evolution of the Northern Karoo Igneous Province. 2021 , 56, 1072-1108	1
519	Magmatic Evolution following Damp Tholeiitic and Wet Calc-alkaline Liquid Lines of Descent: an Eastern Pontides (NE Turkey) Example. 2021 , 62,	6
518	Chapter 5.2b Erebus Volcanic Province: petrology. 2021 , 55, 447-489	15
517	High-Ca boninitic melt inclusions in lavas of the Troodos ophiolite and a reappraisal of genetic relationships between different lava types. 2021 , 133, 1831-1850	1
516	Micro-Geochemistry of Clinopyroxene of the Mafic Dykes in the Jiaodong Peninsula: Implications for Petrogenesis and Geodynamic. 2021 , 25-134	
515	Tectonic discrimination and application based on convolution neural network and incomplete big data. 2021 , 220, 106662	2
514	Geochemical Distinction Between Altered Oceanic Basalt- and Seafloor Sediment-Derived Fluids in the Mantle Source of Mafic Igneous Rocks in Southwestern Tianshan, Western China. 2021 , 62,	1
513	Encyclopedia of Solid Earth Geophysics. 2021 , 361-368	1
512	Chapter 7.2 Mount Erebus. 2021 , 55, 695-739	8
511	Continental flood basalt magmatism contemporaneous with Deccan traps in the Mannar basin, offshore Sri Lanka. 2021 , 30, e12409	O
510	The spatial distribution characteristics of NbIIa of mafic rocks in subduction zones. 2021 , 13, 390-400	O
509	Effects of melt-percolation, refertilization and deformation on upper mantle seismic anisotropy: constraints from peridotite xenoliths, Marie Byrd Land, West Antarctica. M56-2020-16	4
508	Mafic rocks from the southern Alxa block of Northwest China and its geodynamic evolution in the Paleozoic. 2021 , 178, jgs2020-038	O
507	Variable origin of clinopyroxene megacrysts carried by Cenozoic volcanic rocks from the eastern limb of Central European Volcanic Province (SE Germany and SW Poland). 2021 , 382-383, 105936	О
506	Mantle Heterogeneity and Melting Processes in the South China Sea: Thermal and Melting Models Constrained by Oceanic Crustal Thickness and Basalt Geochemistry. 2021 , 126, e2020JB020735	1

505	Cumulate gabbros in the South Andaman Island Ophiolite Suite (India): their bearing on the tectonic setting	O
504	Combined Lithophile-Siderophile Isotopic Constraints on Hadean Processes Preserved in Ocean Island Basalt Sources. 2021 , 22, e2020GC009479	5
503	Constraining the Volume of Earth's Early Oceans With a Temperature-Dependent Mantle Water Storage Capacity Model. 2021 , 2, e2020AV000323	12
502	From subduction to strike slip-related volcanism: insights from Sr, Nd, and Pb isotopes and geochronology of lavas from SivasMalatya region, Central Eastern Anatolia. 2021 , 110, 849-874	4
501	Evolution of Intraplate Alkaline to Tholeiitic Basalts via Interaction Between Carbonated Melt and Lithospheric Mantle. 2021 , 62,	6
500	Iron isotopes trace primordial magma ocean cumulates melting in Earth's upper mantle. 2021 , 7,	1
499	Amphibolites of the Stalemate Ridge and Shirshov Rise, Northwest Pacific: Indicators of the Geodynamic Regime of Metamorphism at the Convergent Plate Boundary. 2021 , 59, 213-228	1
498	Volcaniclastic sandstones record the influence of subducted Pacific MORB on magmatism at the early Izu-Bonin arc. 2021 , 296, 170-188	2
497	Gravity effect of Alpine slab segments based on geophysical and petrological modelling. 2021, 12, 691-711	1
496	What can we learn from REE abundances in clinopyroxene and orthopyroxene in residual mantle peridotites?. 2021 , 176, 1	1
495	Petrology, geochemistry, Ar Ar isotopes of an arc related calk-alkaline pluton from Mamb (Pan-African Yaounde group, Cameroon): A testimony to the subduction of a hot oceanic crust. 2021 , 384-385, 105973	4
494	Geochemistry and tectonic setting of Middle Ordovician MORB-like basalts in the Kunlun Orogen: implications for a back-arc environment. 2021 , 14, 1	2
493	Quantitative Measurement of Rare Earth Elements in Brines: Isolation from the Charged Matrix Versus Direct LA-ICP-MS Measurements (A Comparative Study. 2021 , 45, 341-358	1
492	Calcium Stable Isotopes of Tonga and Mariana Arc Lavas: Implications for Slab Fluid-Mediated Carbonate Transfer in Cold Subduction Zones. 2021 , 126, e2020JB020207	3
491	A review of mechanisms generating seismic anisotropy in the upper mantle. 2021 , 313, 106662	4
490	One-Sided Joint Inversion of Shear Velocity and Resistivity from the PI-LAB Experiment at the Equatorial Mid-Atlantic Ridge.	
489	The Cuyano proto-ocean between the Chilenia and Cuyania terranes: rifting and plume interaction during the Neoproterozoic Learly Palaeozoic evolution of the SW Gondwana margin. 2021 , 158, 1773-1794	2
488	Origin of Graphite D iamond-Bearing Eclogites from Udachnaya Kimberlite Pipe. 2021 , 62,	2

487	Do Olivine Crystallization Temperatures Faithfully Record Mantle Temperature Variability?. 2021 , 22, e2020GC009157	12
486	Lithospheric mantle refertilization by DMM-derived melts beneath the Cameroon Volcanic Line case study of the Befang xenolith suite (Oku Volcanic Group, Cameroon). 2021 , 176, 1	1
485	EM1-Signature in the North Fiji Basin: Evidence for Stagnant Slab-Derived Mantle Upwelling Beneath the Trench-Distal Back-Arc Basin. 2021 , 126, e2020JB021017	O
484	Testing the Recycled Gabbro Hypothesis for the Origin of Chost PlagioclaselMelt Signatures Using 87Sr/86Sr of Individual Olivine-Hosted Melt Inclusions From Hawai'i. 2021 , 22, e2020GC009260	1
483	Late Cambrian calc-alkaline magmatism during transition from subduction to accretion: Insights from geochemistry of lamprophyre, dolerite and gabbro dikes in the Dzhida terrain, Central Asian orogenic belt. 2021 , 386-387, 106044	Ο
482	A neural network application to assess magma diversity in the Etendeka igneous province, Namibia.	O
481	Simultaneous development of arc-like and OIB-like mafic dikes in eastern Guangdong, SE China: Implications for late Jurassic Learly Cretaceous tectonic setting and deep geodynamic processes of South China. 2021 , 388-389, 106021	1
480	Astrochemistry. 2021,	
479	A review of mantle xenoliths in volcanic rocks from southern Victoria Land, Antarctica. M56-2019-42	6
478	The potential for aqueous fluid-rock and silicate melt-rock interactions to re-equilibrate hydrogen in peridotite nominally anhydrous minerals. 2021 , 106, 701-714	3
477	Assessing the Role of Water in Alaskan Flat-Slab Subduction. 2021, 22, e2021GC009734	1
476	Deciphering variable mantle sources and hydrous inputs to arc magmas in Kamchatka. <i>Earth and Planetary Science Letters</i> , 2021 , 562, 116848	3
475	Thallium elemental and isotopic systematics in ocean island lavas. 2021, 301, 187-210	3
474	Segregated oceanic crust trapped at the bottom mantle transition zone revealed from ambient noise interferometry. 2021 , 12, 2531	3
473	The subantarctic lithospheric mantle. M56-2020-13	1
472	Sr-Nd isotopic study of dolerite dykes in the Western Dharwar craton, southern India: Implications for the evolution of the subcontinental lithospheric mantle in late Archean. 2021 , 388-389, 106023	4
471	MORB-like B6Fe values unveil the effect of subduction on the South China Sea basalts. 2021 , 569, 120124	3
470	Mantle micro-block beneath the Indian Ocean and its implications on the continental rift-drift-collision of the Tethyan evolution. 2021 , 217, 103622	O

469	Multistage Fractional Crystallization in the Continental Arc Magmatic System: Constraints from the Appinites in Tengchong Block, Southeastern Extension of Tibet. 2021 , 2021,	1
468	Seismic Imaging of Deep Mantle Plumes. 2021 , 353-369	1
467	Barium isotope evidence for recycled crustal materials in the mantle source of continental basalts. 2021 , 390-391, 106111	2
466	Seismic Wave Velocities in Earth's Mantle from Mineral Elasticity. 2021 , 51-95	2
465	A New Reference Model for the Evolution of Oceanic Lithosphere in a Cooling Earth. 2021 , 126, e2020JB0215	52 8
464	Migration of Arc Magmatism Above Mantle Wedge Diapirs With Variable Sediment Contribution in the Aegean. 2021 , 22, e2020GC009565	2
463	Postmelting hydrogen enrichment in the oceanic lithosphere. 2021 , 7,	2
462	Geochemistry of deep Tunguska Basin sills, Siberian Traps: correlations and potential implications for the end-Permian environmental crisis. 2021 , 176, 1	3
461	Neoarchean-early Paleoproterozoic granitoids, the geothermal gradient and geodynamic evolution in the Hengshan Terrane, North China Craton. 2021 , 94, 143-163	5
460	Petrology and geochemistry of the Pan-African high-K calc-alkaline to shoshonitic dakitic Bap blutonic suites (Adamawa-Yade block, Cameroon): evidence of a hot oceanic crust subduction. 2021 , 110, 2067-2090	6
459	Chlorine from seawater is key to the generation of calc-alkaline lavas. 2021 , 213, 104753	3
458	Conditions and Dynamics of Magma Storage in the Snfellsnes Volcanic Zone, Western Iceland: Insights from the B"°ahraun and Berserkjahraun Eruptions. 2021 , 62,	Ο
457	Nb-Ta systematics of Kohistan and Gangdese arc lower crust: Implications for continental crust formation. 2021 , 133, 104131	2
456	Reworking of juvenile crust beneath the Bangong Nujiang suture zone: Evidence from Late Cretaceous granite porphyries in Southern Qiangtang, Central Tibet. 2021 , 390-391, 106097	О
455	Iron, copper, and zinc isotopic fractionation in seafloor basalts and hydrothermal sulfides. 2021 , 436, 106491	2
454	Geochemical Diversity in the Mantle. 2021 , 121-150	1
453	Recycling of Paleo-Asian Ocean carbonates and its influence on the lithospheric composition of the North China Craton. 2021 , 64, 1346-1362	О
452	Multi-stage mantle accretions and metasomatisms related to peripheral subduction or collision in the northern North China Craton: Evidence from the Nangaoya peridotite xenoliths. 2021 , 390-391, 106116	1

451	Picrite-basalt complex in the Baoshan-Gongshan Block of northern Sibumasu: Onset of a mantle plume before breakup of Gondwana and opening of the Neo-Tethys Ocean.		O
450	Opposite Symmetry in the Lithospheric Structure of the Alboran and Algerian Basins and Their Margins (Western Mediterranean): Geodynamic Implications. 2021 , 126, e2020JB021388		4
449	Volatile Element Evidence of Local MORB Mantle Heterogeneity Beneath the Southwest Indian Ridge, 48°B1°E. 2021 , 22, e2021GC009647		1
448	Insight into crustal contamination and hydrothermal alteration of the Panjal Traps (Kashmir) from O-isotopes. 1-18		O
447	Calcium isotopic fractionation during magma differentiation: Constraints from volcanic glasses from the eastern Manus Basin. 2021 , 305, 228-242		2
446	High temperature hydrothermal alteration and amphibole formation in Gakkel Ridge abyssal peridotites. 2021 , 392-393, 106107		
445	Late Cretaceous hydrous melting and reworking of juvenile lower crust of the eastern Gangdese magmatic arc, southern Tibet. 2021 ,		1
444	ReversePetrogen: A Multiphase Dry Reverse Fractional Crystallization-Mantle Melting Thermobarometer Applied to 13,589 Mid-Ocean Ridge Basalt Glasses. 2021 , 126, e2020JB021292		O
443	Melt addition to mid-ocean ridge peridotites increases spinel Cr# with no significant effect on recorded oxygen fugacity. <i>Earth and Planetary Science Letters</i> , 2021 , 566, 116951	5.3	5
442	Quantitative estimates of impact induced crustal erosion during accretion and its influence on the Sm/Nd ratio of the Earth. 2021 , 363, 114412		2
441	Petrogenesis of Early Cretaceous volcanic rocks of the northeastern North China Craton: Constraints from elemental and SrNdPb isotope geochemistry. 2021 , 392-393, 106149		1
440	Compositional signatures of dolerite dykes from the Purang ultramafic massif, Tibet: Implications for garnet-bearing components in the Neo-Tethyan mantle. 2021 , 392-393, 106157		3
439	B isotopes reveal Eocene mlange melting in northern Tibet during continental subduction. 2021 , 392-393, 106146		0
438	Petrogenesis of coeval shoshonitic and high-K calc-alkaline igneous suites in the Eopyeong granitoids, Taebaeksan Basin, South Korea: Lithospheric thinning-related Early Cretaceous magmatism in the Korean Peninsula. 2021 , 392-393, 106127		3
437	Two contrasting Neoarchean metavolcanic rock suites in eastern Hebei and their geodynamic implications for the northern North China Craton. 2021 , 95, 45-71		6
436	Meter-Scale Chemical and Isotopic Heterogeneities in the Oceanic Mantle, Leka Ophiolite Complex, Norway.		3
435	Drilling into the Mantle: A Key to Prognosticating the Future of the Ocean Planet. 2021 , 130, 585-597		2
434	Partitioning of Fe2O3 in peridotite partial melting experiments over a range of oxygen fugacities elucidates ferric iron systematics in mid-ocean ridge basalts and ferric iron content of the upper mantle. 2021 , 176, 1		3

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433	Tracing mantle source variation through xenocrystic olivine in the Taupo Volcanic Zone, New Zealand: A role for lithospheric mantle in the shift from andesitic to rhyolitic compositions. 2021 , 394-395, 106185	
432	Multi-stage sulfur and carbon mobility in fossil continental subduction zones: New insights from carbonate-bearing orogenic peridotites. 2021 , 306, 143-170	O
431	Petrology and geochemistry of ultramafic rocks in the Mogok belt, Myanmar: Cumulates from high-pressure crystallization of hydrous arc melts.	2
430	Paleoproterozoic calc-alkaline lamprophyres from the Sidhi Gneissic complex, India: Implications for plate tectonic evolution of the Central Indian Tectonic Zone. 2021 , 362, 106316	5
429	First petrologic data for Vittia Seamount, Vittia-Trindade Ridge, South Atlantic: a contribution to the Trindade mantle plume evolution. 2021 , 109, 103304	6
428	Mineral chemistry and geochemistry of serpentinites from the Bianmagou ophiolite in the North Qilian Belt, NW China: Implications for protoliths, melt extractions, and melt/fluid metasomatism. 2021 , 56, 5163	O
427	The sulfur concentration at anhydrite saturation in silicate melts: Implications for sulfur cycle and oxidation state in subduction zones. 2021 , 306, 98-123	О
426	Carbon concentration increases with depth of melting in Earth upper mantle. 2021, 14, 697-703	8
425	The Origin of Late Cenozoic Magmatism in the South China Sea and Southeast Asia. 2021 , 22, e2021GC00968	6 o
424	Mantle metasomatic influence on water contents in continental lithosphere: New constraints from garnet pyroxenite xenoliths (France & Cameroon volcanic provinces). 2021 , 575, 120257	1
423	Buoyancy versus shear forces in building orogenic wedges. 2021 , 12, 1749-1775	1
422	Petrology and Geochemistry of Some Ophiolitic Metaperidotites from the Eastern Desert of Egypt: Insights into Geodynamic Evolution and Metasomatic Processes. 2021 , 95, 1139-1157	5
421	Geochemistry and Zircon U-Pb Dates of Felsic-Intermediate Members of the Late Cretaceous Yಔsekova Arc Basin: Constraints on the Evolution of the Bitlis☑agros Branch of Neotethys (Elaz-☐ E Turkey). 2021 , 95, 1199-1216	2
420	Shear Velocity Inversion Guided by Resistivity Structure From the PI-LAB Experiment for Integrated Estimates of Partial Melt in the Mantle. 2021 , 126, e2021JB022202	4
419	The Petrological Consequences of the Estimated Oxidation State of Primitive MORB Glass. 2021, 139-154	1
418	Petrogenesis of arc-related peridotite hosted chromitite deposits in Sikhoran-Soghan mantle section, South Iran: Evidence for proto-forearc spreading to boninitic stages. 2021 , 136, 104256	4
417	Geochemistry and Cosmochemistry of Potassium Stable Isotopes 2021 , 81, 125786-125786	3
416	Petrological and geochemical characteristics of the diabase and metasomatised dikes from the Tekirova ophiolite (SW Anatolia, Turkey): Tectonomagmatic evolution of the southern Neotethys. 2021 , 81, 125767	1

415	Zircon Solubility in Solute-Rich Supercritical Fluids and Zr Transfer From Slab to Wedge in the Deep Subduction Process. 2021 , 126, e2021JB021970	O
414	From subduction initiation to hot subduction: Life of a Neoarchean subduction zone from the Dengfeng Greenstone Belt, North China Craton.	1
413	A process-oriented approach to mantle geochemistry. 2021 , 579, 120350	6
412	Four Pan-African plutonic sets of the Colomines gold district (East-Cameroon): Petrogenesis, K-Ar dating and geodynamic significance. 2021 , 181, 104220	4
411	A geochemical study of the Crown Formation and Bird Member lavas of the Mesoarchaean Witwatersrand Supergroup, South Africa. 2021 , 124, 663-684	1
410	On the Stability of Talc in Subduction Zones: A Possible Control on the Maximum Depth of Decoupling Between the Subducting Plate and Mantle Wedge. 2021 , 48, e2021GL094889	3
409	Systematic LREE enrichment of mantle harzburgites: The petrogenesis of San Carlos xenoliths revisited. 2021 , 396-397, 106195	1
408	New evidence for Late Cretaceous plume-related seamounts in the Middle East sector of the Neo-Tethys: Constraints from geochemistry, petrology, and mineral chemistry of the magmatic rocks from the western Durkan Complex (Makran Accretionary Prism, SE Iran). 2021 , 396-397, 106228	4
407	The Middle-Late Cretaceous Zagros ophiolites, Iran: Linking of a 3000 km swath of subduction initiation fore-arc lithosphere from Troodos, Cyprus to Oman.	0
406	Jurassic@retaceous arc magmatism along the ShyokBangong Suture from NW Himalaya: Formation of the peri-Gondwana basement to the Ladakh Arc. jgs2021-035	
405	Deserpentinization and high-pressure (eclogite-facies) metamorphic features in the Eoarchean ultramafic body from Isua, Greenland. 2021 , 13, 101298	2
404	Magma differentiation and recharge in the petrogenesis of early paleozoic mafic intrusives in the Qilian orogen, northwestern China. 2021 , 106492	
403	Origin of the basal lherzolite of the Muslim Bagh Ophiolite, Pakistan, deduced from the trace element characteristics of clinopyroxene. 2021 , 56, 5725	1
402	Three-stage modification of lithospheric mantle: Evidence from petrology, in-situ trace elements, and Sr isotopes of mantle xenoliths in the Cenozoic basalts, northeastern North China Craton.	
401	Thermal expansivity, heat capacity and bulk modulus of the mantle.	3
400	Melting conditions and mantle source composition from probabilistic joint inversion of major and rare earth element concentrations. 2021 , 315, 251-251	2
399	Development of a complex arcBack-arc basin system within the South Tianshan Ocean: Insights from the Wuwamen ophiolitic peridotites. 2021 , 106487	
398	Zircon U-Pb and Lu-Hf isotopes and geochemistry of granitoids in central Tibet: Bringing the missing Early Jurassic subduction events to light. 2021 , 98, 125-146	4

(2021-2021)

397	Partial melting and subduction-related metasomatism recorded by geochemical and isotope (He-Ne-Ar-Sr-Nd) compositions of spinel lherzolite xenoliths from Coyhaique, Chilean Patagonia. 2021 , 98, 257-276	1
396	Magnesium isotope constraints on contributions of recycled oceanic crust and lithospheric mantle to generation of intraplate basalts in a big mantle wedge. 2021 , 398-399, 106327	O
395	Mantle melting models of the K-z-ldalophiolite in SE Turkey: Two types of partial melting processes in the oceanic upper mantle of southern Neo-Tethys. 2021 , 398-399, 106348	2
394	Do the 85°E Ridge and Conrad Rise form a hotspot track crossing the Indian Ocean?. 2021 , 398-399, 1062	34 1
393	Iron isotope constraints on the lithological heterogeneity of the upper mantle in the South China Sea. 2021 , 220, 104934	2
392	Nature and evolution of the lithospheric mantle beneath the South China. 2021 , 398-399, 106361	2
391	Late Triassic dacites from Well NK-1 in the Nansha Block: Constraints on the Mesozoic tectonic evolution of the southern South China Sea margin. 2021 , 398-399, 106337	1
390	Recycling of ancient sub-oceanic mantle in the Neo-Tethyan asthenosphere: Evidence from major and trace elements and HfDs isotopes of the Kop Mountain ophiolite, NE Turkey. 2021 , 311, 43-58	2
389	Eclogite subduction wedge intruded by arc-type magma: The earliest record of Variscan arc in the Bohemian Massif. 2021 , 99, 220-246	5
388	Selenium and tellurium in Reykjanes Ridge and Icelandic basalts: Evidence for degassing-induced Se isotope fractionation. 2021 , 313, 155-172	1
387	Ca-Sr isotope and chemical evidence for distinct sources of carbonatite and silicate mantle metasomatism. 2021 , 312, 158-179	0
386	A mlange contribution to arc magmas recorded by NdHf isotopic decoupling: An example from the southern Qiangtang Block, central Tibet. 2021 , 221, 104931	2
385	Geochemistry and SrNdHfPb isotope systematics of late Carboniferous sanukitoids in northern West Junggar, NW China: Implications for initiation of ridge-subduction. 2021 , 99, 204-218	3
384	Coexisting Early Cretaceous arc-type and OIB-type mafic magmatic rocks in the eastern Jiangnan Orogen, South China Block: Implications for paleo-Pacific plate subduction. 2021 , 400-401, 106421	
383	Geochemistry, U Pb geochronology, and Sr-Nd-Hf isotope systematics of a SW-NE transect in the southern Peninsular Ranges batholith, Mexico: Cretaceous magmatism developed on a juvenile island-arc crust. 2021 , 400-401, 106375	3
382	High Bignature in lavas of Mt. Oku: Implications for lithospheric and asthenospheric contributions to the magmatism of the Cameroon Volcanic Line (West Africa). 2021 , 400-401, 106416	1
381	Petrogenesis of Neoarchean (2.800.75 Ga) Jagannathpur volcanics and the Ghatgaon and Keshargaria dyke swarms, Singhbhum craton, eastern India: Geochemical, Sr Nd isotopic and Sm Nd geochronologic constraints for interaction of enriched-DMM derived magma with metasomatised	2
380	subcontinental lithospheric mantle. 2021 , 400-401, 106373 Isotopic modelling of Archean crustal evolution from comagmatic zircon patite pairs. <i>Earth and Planetary Science Letters</i> , 2021 , 575, 117194	i.3 1

379	Geochemical studies on the mantle source lithologies of late Cenozoic alkali basalts from Baengnyeong, Pyeongtaek, and Asan in the Korean Peninsula. 2021 , 404-405, 106434	0
378	The effect of oxygen fugacity on ionic conductivity in olivine. 2022 , 13, 101270	
377	Distribution of mantle-melt interaction zone: A petrological exploration tool for podiform chromitite deposits in the Kalaymyo ophiolite, Myanmar. 2022 , 232, 106878	1
376	Ancient depletion signals in lherzolites from forearc region: Constraints from Lu-Hf isotope compositions. 2022 , 13, 101259	3
375	Melt Migration and Interaction in a Dunite Channel System within Oceanic Forearc Mantle: the Yushigou Harzburgite Dunite Associations, North Qilian Ophiolite (NW China). 2021 , 62,	5
374	Variations of Source Composition and Melting Degrees of Olivine-Phyric Rocks from Kamchatsky Mys: Results of Geochemical Modeling of Trace Element Contents in Melts. 2021 , 29, 14-23	O
373	Chapter 2.3 Dronning Maud Land Jurassic volcanism: volcanology and petrology. 2021 , 55, 157-181	2
372	Mineralogy and Geochemistry of Deep-Sea Sediments from the Ultraslow-Spreading Southwest Indian Ridge: Implications for Hydrothermal Input and Igneous Host Rock. 2021 , 11, 138	6
371	Highly siderophile element geochemistry and tectonic setting of ultramafic rocks from Haiyangsuo in eastern Shandong. 2021 , 37, 2562-2578	1
370	Chapter 5.3b Mount Early and Sheridan Bluff: petrology. 2021 , 55, 499-514	9
369	Emplacement processes of proto-arc basalt in the IzuBoninMariana arc system. 2021, 30, e12401	0
368	Geology of Egypt: The Northern Red Sea. 2020 , 343-374	2
367	Andaman Ophiolite: An Overview. 2020 , 1-17	1
366	Strontium Isotopes in Biological Material: A Key Tool for the Geographic Traceability of Foods and Humans Beings. 2018 , 145-166	2
365	Seafloor Spreading Initiation: Geophysical and Geochemical Constraints from the Thetis and Nereus Deeps, Central Red Sea. 2015 , 79-98	3
364	Age and Origin of the Chilka Anorthosites, Eastern Ghats, India: Implications for Massif Anorthosite Petrogenesis and Break-up of Rodinia. 2011 , 355-382	8
363	Encyclopedia of Marine Geosciences. 2016 , 182-185	1
362	The Plume to Plate Transition: Hadean and Archean Crustal Evolution in the Northern Wyoming Province, U.S.A 2014 , 23-54	4

361	Water in the Earth⊠ Interior: Distribution and Origin. 2017 , 83-150	1
360	Asthenosphere-induced melting of diverse source regions for East Carpathian post-collisional volcanism. 2020 , 175, 1	11
359	Multi-element isotopic evolution of magmatic rocks from Caviahue-Copahue Volcanic Complex (Chile-Argentina): Involvement of mature slab recycled materials. 2018 , 476, 370-388	8
358	Geochemistry, petrogenesis and tectonic significance of the volcanic rocks of the Las Tortolas Formation, Coastal Cordillera, northern Chile. 2018 , 87, 66-86	5
357	Highly siderophile elements and Os isotope constraints on the genesis of peridotites from the K^-z^- lda[bphiolite, southern Turkey. 2020 , 368-369, 105583	3
356	Diamondiferous and barren eclogites and pyroxenites from the western Kaapvaal craton record subduction processes and mantle metasomatism, respectively. 2020 , 368-369, 105588	5
355	Melting controls on the lutetiumBafnium evolution of Archaean crust. 2018, 305, 479-488	30
354	Subduction erosion and arc volcanism. 2020 , 1, 574-589	26
353	GEODYNAMICS AND RATE OF VOLCANISM ON MASSIVE EARTH-LIKE PLANETS. 2009 , 700, 1732-1749	126
352	A west-east geochemical and isotopic traverse along the volcanism of the Aeolian Island arc, southern Tyrrhenian Sea, Italy: Inferences on mantle source processes. 2007 ,	12
351	The Atlantis Bank Gabbro Massif, Southwest Indian Ridge. 2019 , 6,	28
350	Subducted oceanic crust as the origin of seismically slow lower-mantle structures. 2020 , 7,	16
349	Middle-Late Triassic magmatic records for the accretionary processes of South Qiangtang accretionary terrane: The mafic dykes in Mayigangri-Jiaomuri area, North Tibet. 2019 , 35, 760-774	7
348	Geochemical variation of back-arc basin basalt and its genesis. 2020 , 36, 1953-1972	3
347	The Scripps Dike and Its Implications for Mid-Miocene Volcanism and Tectonics of the California Continental Borderland. 2019 , 43-55	3
346	Multivariate statistical analyses of rare earth element compositions of spring waters from the Arima and Kii areas, Southwest Japan. 2020 , 54, 165-182	2
345	Melt-peridotite reactions: Roles in magma genesis beneath mid-ocean ridges, oceanic islands, and volcanic arcs. 2013 , 42, 83-100	2
344	Geochemical and Sr-Nd-Pb-Hf Isotopic Characteristics of Muchen Pluton in Southeast China, Constrain the Petrogenesis of Alkaline A-Type Magma. 2020 , 10, 80	2

343	Impact of upper mantle convection on lithosphere hyperextension and subsequent horizontally forced subduction initiation. 2020 , 11, 2327-2357	2
342	Characterising the distinct crustal protoliths of Roberts Victor Type I and II eclogites.	O
341	Luminous solar neutrinos. I. Dipole portals. 2021 , 104,	2
340	The Composition of the Lower Oceanic Crust in the Wadi Khafifah Section of the Southern Samail (Oman) Ophiolite. 2021 , 126, e2021JB021986	3
339	Deciphering the origin of a basanite-alkali basalt-tholeiite suite using Zn isotopes. 2021 , 585, 120585	Ο
338	Geochemical and Isotopic Evolution of Late Oligocene Magmatism in Quchan, NE Iran. 2021 , 22, e2021GC0	0997 <u>3</u>
337	Molybdenum isotopes unmask slab dehydration and melting beneath the Mariana arc. 2021 , 12, 6015	3
336	Luminous solar neutrinos. II. Mass-mixing portals. 2021 , 104,	2
335	Ancient melt-depletion in fresh to strongly serpentinised Tonga Trench peridotites.	2
334	Enriched Hf Nd isotopic signature of veined pyroxenite-infiltrated peridotite as a possible source for E-MORB. 2021 , 120591	1
333	Isotopic fingerprints of recycled eclogite facies sediments in the generation of the Huanglongpu carbonatite, central China. 2021 , 139, 104534	2
332	Mantle wedge enrichment beneath southern Tibet during the late stage (100월5 Ma) of oceanic subduction: Geochemical constraints from mantle-derived intrusions. 2021 , 406-407, 106505	
331	Highly variable H2O/Ce ratios in the Hainan mantle plume. 2021 , 406-407, 106516	1
330	Insights Into the Nature of Plume-Ridge Interaction and Outflux of H2O From the Galpagos Spreading Center. 2021 , 22, e2020GC009560	O
329	Two episodes of Mesozoic mafic magmatism in the Nansha Block: Tectonic transition from continental arc to back-arc basin. 2021 , 404-405, 106502	O
328	Geochemical signature of slab-derived fluid: Constraints from the chemical composition of natural rocks and the high pressure experiments. 2010 , 39, 220-230	2
327	Metabazyty pasma Novĥo Mūta. 2013 ,	
326	Composition of the Crust and the Mantle. 2015 , 3-28	

325	Petrology and Geochemistry of Mid-Ocean Ridge Basalts from the Southern Central Indian Ridge. 2015 , 163-175	1
324	Encyclopedia of Marine Geosciences. 2015 , 1-5	
323	Encyclopedia of Geochemistry. 2017 , 1-3	
322	Encyclopedia of Geochemistry. 2017 , 1-3	
321	Magma evolution and petrogenesis of Holocene volcanic rocks in Tengchong, Yunnan. 2019 , 35, 472-484	O
320	Encyclopedia of Solid Earth Geophysics. 2020 , 1-9	
319	Deep crustal crystallization of tholeiitic melt: Insights from Manguao Basalt, Palawan, Philippines. 2020 , 115, 440-456	
318	An Automated Method to Generate and Evaluate Geochemical Tectonic Discrimination Diagrams Based on Topological Theory. 2020 , 10, 62	
317	What can we learn from REE abundances in clinopyroxene and orthopyroxene in residual mantle peridotites?.	
316	A Plate-Mantle Convection System in the West Pacific Revealed by Tertiary Ultramafic-Mafic Volcanic Rocks in Southeast China. 2021 , 8, e2020EA001324	
315	Zinc isotopes of the Mariana and Ryukyu arc-related lavas reveal recycling of forearc serpentinites into the subarc mantle. e2021JB022261	2
314	Gabbroic xenoliths and glomerocrysts in the post-collisional trachyandestic rocks from Tengchong, SE Tibet: Implications for the magma chamber processes. 2020 , 36, 2127-2148	
313	Geochemistry, geochronology and geological implication of amphibolites in Ailao Shan-Day Nui Con Voi metamorphic complex belt, southeastern Tibetan Plateau. 2020 , 36, 3607-3630	1
312	Timing of Formation and Obduction of the Andaman Ophiolite. 2020, 19-42	O
311	What can we learn from REE abundances in clinopyroxene and orthopyroxene in residual mantle peridotites?.	
310	Crustal fluids cause strong Lu-Hf fractionation and Hf-Nd-Li isotopic provinciality in the mantle of continental subduction zones.	
309	Lower mantle melting: experiments and thermodynamic modelling in the system MgO-SiO2. e2021JB022568	
308	Geo-Neutrinos: A Systematic Approach to Uncertainties and Correlations. 2006 , 111-130	

307 Neodymium. **2018**, 965-967

306	Opposite symmetry in the lithospheric structure of the Alboran and Algerian basins and their margins(Western Mediterranean): Geodynamic implications.	
305	Geochemistry of Late Permian basalts from boreholes in the Sichuan Basin, SW China: Implications for an extension of the Emeishan large igneous province. 2022 , 588, 120636	1
304	Mantle source heterogeneity in a Neoproterozoic back-arc basin: Geochemical and thermodynamic modeling of the volcanic section of Wadi Ghadir ophiolite, Egypt. 2022 , 368, 106480	1
303	Footprints and conditions of multistep alkali enrichment in basaltic melts at Piton de la Fournaise (La Rùnion Island, Indian Ocean). 2021 , 83, 1	2
302	Heterogeneous nickel isotope compositions of the terrestrial mantle - Part 2: Mafic lithologies. 2021 , 317, 349-349	O
301	Melting and Evolution of Amphibole-Rich Back-Arc Abyssal Peridotites at the Mado Megamullion, Shikoku Basin. 2021 , 22, e2021GC010013	1
300	Progress towards an improved Precambrian seawater 87Sr/86Sr curve. 2021 , 103869	4
299	Mississippian southern Laurentia tuffs came from a northern Gondwana arc.	3
298	Constraints on the sulfur subduction cycle in Central America from sulfur isotope compositions of volcanic gases. 2021 , 588, 120627	O
297	Hidden Water in Magma Ocean Exoplanets. 2021 , 922, L4	1
296	Basalt from the Extinct Spreading Center in the West Philippine Basin: New Geochemical Results and Their Petrologic and Tectonic Implications. 2021 , 11, 1277	
295	Evidence for carbonatite derived from the earth's crust: The late Paleoproterozoic carbonate-rich magmatic rocks in the southeast Tarim Craton, northwest China. 2021 , 106425	1
294	Geochemical characteristics of back-arc basin lower crust and upper mantle at final spreading stage of Shikoku Basin: an example of Mado Megamullion. 2021 , 8,	3
293	The Pliocene Post-Collisional Volcanism of Central Armenia: Isotope-Geochronology and Geochemical Evolution of Magmatic Melts. 2021 , 29, 627-656	
292	The rare earth element geochemistry of mafic granulites from the Neoarchaean northern marginal zone of the Limpopo Belt, Zimbabwe: Insights into mantle processes during an episode of crustal growth. 2021 , 186, 104434	O
291	Mineralogical and Re-Os isotope constraints on fluidland meltlock interactions and the origin of mantle peridotites from the Amdo ophiolite, northern Tibet. 2021 , 406-407, 106543	
290	Protolith and Metamorphic Age of the Sieggraben Eclogites: Implications for the Permian to Cretaceous Wilson Cycle in the Austroalpine Unit.	

289 Mantle Source Evolution and Volcanism Migration at Ambrym Volcano, Vanuatu Island Arc.

288	Composition of planetary crusts and planetary differentiation. 2022 , 287-331	1
287	Unraveling the signature of metasomatized subcontinental lithospheric mantle in the basaltic magmatism of the Payenia volcanic province, Argentina.	1
286	Vittia-Trindade seamounts. 2022 , 293-336	
285	On the relative temperatures of Earth's volcanic hotspots and mid-ocean ridges 2022, 375, 57-61	7
284	Au-rich bimodal-mafic type volcanogenic massive sulphide deposit associated with Jurassic arc volcanism from the Central Pontide (Kastamonu, Turkey). 2022 , 141, 104660	
283	Multistage petrogenetic evolution of Neoproterozoic serpentinized ultramafic rocks and podiform chromitites at Hagar Dungash, Eastern Desert of Egypt. 2022 , 369, 106507	0
282	Global trends in novel stable isotopes in basalts: Theory and observations. 2022 , 318, 388-414	2
281	A suture related accretionary wedge in the Gondwana assembly: Insights from serpentinites in the Hoggar shield, Algeria. 2022 , 369, 106505	0
280	Serpentinite as a tracer for tectonic setting and mantle metasomatism of ophiolites: A case study of the Aoyougou ophiolite in the Qilian Orogenic Belt, NW China. 2022 , 105, 1-11	O
279	Petrogenesis of arc-related serpentinized peridotites (Egypt): Insights into Neoproterozoic mantle evolution beneath the Arabian-Nubian Shield. 2022 , 226, 105078	3
278	The Significance of Slab-Derived Aqueous Fluids on Along- and Across-Arc Variations in Global Quaternary Arcs.	
277	?????????. 2021 , 46, 4197	1
276	Arabia-Eurasia convergence and collision control on Cenozoic juvenile K-rich magmatism in the South Armenian block, Lesser Caucasus. 2022 , 226, 103949	O
275	Machine-learning techniques for quantifying the protolith composition and mass transfer history of metabasalt 2022 , 12, 1385	O
274	Phase Transitions of Fe-, Al- and Ca-Bearing Orthopyroxenes at High Pressure and High Temperature: Implications for Metastable Orthopyroxenes in Stagnant Slabs. 2022 , 127,	O
273	Geochemistry and petrogenesis of alkaline rear-arc magmatism in NW Iran. 2022, 412-413, 106590	
272	Chemical composition of sediments from the subducting Cocos Ridge segment at the Southern Central American subduction zone. 2022 , 41, 58-75	2

271	Deciphering Degassing and Source Effects in Cl Isotopes in Melt Inclusions: The Possible Role of Amphibole in the Magma Source of Stromboli (Aeolian Island Arc). 2022 , 9,		
270	Early Palaeogene maficIntermediate dykes, Robert Island, West Antarctica: Petrogenesis, zircon UPb geochronology, and tectonic significance.		1
269	Multiple Melting of a Heterogeneous Mantle and Episodic Accretion of Oceanic Crust in a Spreading Zone: Zircon U-Pb Age and Hf-O Isotope Evidence from an Oceanic Core Complex of the Mid-Atlantic Ridge. 2022 , 30, 1-24		1
268	Nature and evolution of the Late Cretaceous lithospheric mantle beneath the eastern Jiangnan orogenic belt: constraints from peridotite xenoliths. 2022 , 177, 1		
267	Petrogenesis of the Mesoarchean (~3.05 Ga) mafic volcanics from the western Iron Ore Group volcano-sedimentary succession, Singhbhum craton, eastern India: Constraints from geochemical modelling and Sm-Nd geochronology. 2022 , 412-413, 106596		1
266	Depletion and refertilisation of the lithospheric mantle below the Kapsiki plateau (Northern Cameroon Volcanic Line) deduced from trace element and H2O systematics in mantle xenoliths. 2022 , 104483		
265	Multidisciplinary constraints on the thermal-chemical boundary between Earth core and mantle.		3
264	Mantle plume and rift-related volcanism during the evolution of the Rio Grande Rise. 2022, 3,		2
263	Crustal contamination and hybridization of an embryonic oceanic crust during the Red Sea rifting (Tihama Asir igneous complex, Saudi Arabia).		О
262	Trace element constraints on the parental melt of gabbroic cumulates from the Naga Ophiolite Complex, North-East India. 2022 , 111, 1009		
261	Hydrous silicate melts and the deep mantle H2O cycle. <i>Earth and Planetary Science Letters</i> , 2022 , 581, 117408	5.3	О
260	Geochemistry of serpentinized and multiphase altered Atlantis Massif peridotites (IODP Expedition 357): Petrogenesis and discrimination of melt-rock vs. fluid-rock processes. 2022 , 594, 120681		O
259	Continental crust recycling in ancient oceanic subduction zone: Geochemical insights from arc basaltic to andesitic rocks and paleo-trench sediments in southern Tibet. 2022 , 414-415, 106619		
258	Geochemistry of basaltic blueschists from the Deyader Metamorphic Complex (Makran Accretionary Prism, SE Iran): New constraints for magma generation in the Makran sector of the Neo-Tethys. 2022 , 228, 105141		О
257	Linking Chemical Heterogeneity to Lithological Heterogeneity of the Samoan Mantle Plume With Fe-Sr-Nd-Pb Isotopes. 2021 , 126,		1
256	Revisiting the Origin of the Carboniferous Oytag Pluton in West Kunlun Orogenic Belt, Northwest China.		
255	Possible Chemical Composition And Interior Structure Models Of Venus Inferred From Numerical Modelling. 2022 , 926, 217		1
254	Origin of low-MgO primitive intraplate alkaline basalts from partial melting of carbonate-bearing eclogite sources. 2022 ,		O

253	An Evaluation of Five Models of Arc Volcanism. 2022 , 63,	3
252	Ultra-Refractory Peridotites of Phanerozoic Mantle Origin: the Papua New Guinea Ophiolite Mantle Tectonites. 2022 , 63,	1
251	Rifting of the Indian passive continental margin: Insights from the Langjiexue basalts in the central Tethyan Himalaya, southern Tibet.	О
250	Binary mixing of lithospheric mantle and asthenosphere beneath Tengchong volcano, SE Tibet: evidence from noble gas isotopic signatures. 1-17	O
249	Crustal Contaminations Responsible for the Petrogenesis of Basalts from the Emeishan Large Igneous Province, NW China: New Evidence from Ba Isotopes. 2022 , 33, 109-120	1
248	Basaltic volcanism of Medvezhia caldera on the Iturup Island of Kurile Isles: impact of regional tectonics on subduction magmatism Martynov Yu. Rybin . Chibisova . Ostapenko D.S., Davydova M.Yu. 1-21	
247	Boron isotopes in boninites document rapid changes in slab inputs during subduction initiation 2022 , 13, 993	O
246	Data report: major and trace element and Nd-Pb-Hf isotope composition of the Site U1504 metamorphic basement in the South China Sea (IODP Expedition 367/368/368X).	О
245	Partitioning Behaviors of Cobalt and Manganese along Diverse Melting Paths of Peridotitic and MORB-Like Pyroxenitic Mantle. 2022 , 63,	
244	Oxidized primary arc magmas: Constraints from Cu/Zr systematics in global arc volcanics 2022 , 8, eabk0718	1
243	Generation of arc-like and OIB-like magmas triggered by slab detachment in the Eastern Mexican Alkaline Province: Petrological evidence from the Cenozoic Sierra de San Carlos-Cruillas complex, Tamaulipas.	0
242	Juvenile crust and mantle sources for the Nasrand intrusive rocks, the central Urumieh D okhtar magmatic arc, Iran: Insights from elemental and isotopic geochemistry.	О
241	The partitioning of Cu and Ag between minerals and silicate melts during partial melting of planetary silicate mantles. 2022 ,	О
240	Early Paleozoic arc-back-arc system evolution in the junction of the Qinling and Qilian Orogens: Geochemical constraints from ca. 445\$\mathbb{A}\$30 Ma magmatic rocks in the Tianshui area. 1-26	
239	Contribution of recycled sediments to the mantle reservoir beneath Hainan Island: Evidence from Sr, Nd, Pb, Hf, and Mg isotopic analyses of Late Cenozoic basalts. 2022 , 125883	
238	Petrogenesis of Lava from Christmas Island, Northeast Indian Ocean: Implications for the Nature of Recycled Components in Non-Plume Intraplate Settings. 2022 , 12, 118	Ο
237	Phase Relations in Spinel Lherzolite KLB-1 According to Results of Thermodynamic Modeling up to 30 GPa: Peculiarities of Mineral Assemblages and Geodynamic Effects. 2022 , 30, 198-211	1
236	Co-Occurrence of HIMU and EM1 Components in a Single Magellan Seamount: Implications for the Formation of West Pacific Seamount Province. 2022 , 63,	O

235	Decoupled Zn-Sr-Nd isotopic composition of continental intraplate basalts caused by two-stage melting process. 2022 ,		1
234	Carboniferous variation of crustal thickness and subduction angles in Eastern Tianshan, NW China: evidence from the petrogenesis of the magmatic rocks in the AqishanNamansu Belt. 1-24		
233	Petrology of ophiolites of Memel, NsimEKell'and Mapan (Yaound'group): Evidence of the geodynamic evolution of the Pan-African orogeny in South Cameroon. 2022 , 104537		O
232	Distinguishing volcanic contributions to the overlapping Samoan and Cook-Austral hotspot tracks.		O
231	Petrogenesis and tectonic implications of Late Triassic dikes from the Suolun within the central Great Xing and Range, NE China: constraints from geochronology and geochemistry. 2022 , 15,		
230	Water enrichment in the mid-ocean ridge by recycling of mantle wedge residue. <i>Earth and Planetary Science Letters</i> , 2022 , 584, 117455	5.3	O
229	Isotopes track Tethyan seamount subduction beneath the Troodos spreading centre, Cyprus. <i>Earth and Planetary Science Letters</i> , 2022 , 584, 117509	5.3	
228	Petrogenesis of the East Hoerba harzburgites, SW Tibet: Implications for melt stagnation in the lithospheric mantle of Neo-Tethys. 2022 , 110984		1
227	Xigaze ophiolite (South Tibet) records complex melt-fluid-peridotite interaction in the crust-mantle transition zone beneath oceanic slow-ultraslow spreading centers. 2022 , 414-415, 106623		
226	Ca isotopic compositions of zoned granitoid intrusion: implications for the emplacement and evolution of magma bodies. 2022 ,		O
225	A quantitative framework for global variations in arc geochemistry. <i>Earth and Planetary Science Letters</i> , 2022 , 584, 117411	5.3	1
224	The origin of nitrogen in Earth's mantle: Constraints from basalts 15N/14N and N2/3He ratios. 2022 , 597, 120780		O
223	Re-assessment of the effect of fractional crystallization on Mo isotopes: Constraints from I-type granitoids and their enclosed mafic magmatic enclaves. 2022 , 597, 120814		O
222	The Calatrava paradox to decipher the origin of carbonatites: A petrological insight on Finca La Nava, Calatrava Province (central Spain). 2022 , 416-417, 106649		O
221	Petrogenesis of Middle Miocene to Early Quaternary basalts from the Karayaz—IIRsu plateau (Eastern Anatolia, Turkey): Implication for the role of pyroxenite and lithospheric thickness. 2022 , 416-417, 106671		
220	Geochronology, geochemistry and petrology of the oligocene magmatism in SE segment of the UDMB, Iran. 2022 , 416-417, 106644		1
219	Unmixing of REE-Nb enriched carbonatites after incremental fractionation of alkaline magmas in the Shaxiongdong complex, Central China. 2022 , 416-417, 106651		1
218	Neoarchean granitoids and tectonic regime of lateral growth in northeastern North China Craton. 2022 , 107, 176-200		2

217	Origin and tectonic implication of mafic dykes: The Permian diabases in Santanghu Basin, NW China. 2022 , 57, 1724-1740	1
216	Sub-arc mantle enrichment in the Sunda rear-arc inferred from HFSE systematics in high-K lavas from Java. 2022 , 177, 1	O
215	Oxygen fugacity evolution of the mantle lithosphere beneath the North China Craton. 1-16	
214	A halogen budget of the bulk silicate Earth points to a history of early halogen degassing followed by net regassing 2021 , 118,	O
213	Quaternary collision-zone magmatism of the Greater Caucasus.	1
212	Trace element partitioning during incipient melting of phlogopite-peridotite in the spinel and garnet stability fields. 2022 ,	0
211	Mineral Chemistry and Mantle Source Constraints from the Alfeu-I Lamproite, Southern Brazil.	
210	Fe3+ partitioning between clinopyroxene and silicate melt at 10.5 GPa: implications for Fe3+ content of MORB and OIB source mantle. 2022,	O
209	Dceanic zircon records extreme fractional crystallization of MORB to rhyolite on the Alarcon Rise mid-ocean ridge[]	
208	Enriched mantle one (EMI) type Carbonatitic Volcanism in Namibia: Evidence for a concentrically-zoned Etendeka plume head. 2022 ,	O
207	Reassessing the Role of Continental Lithospheric Mantle in Cenozoic Magmatism, Southwestern North America. 2022 , 57-86	
206	Genetic relationship between subduction of slab topographic anomalies and porphyry deposit formation: Insight from the source and evolution of Rio Blanco magmas.	1
205	Tectonic Juxtaposition of Two Independent Paleoproterozoic Arcs by Cenozoic Duplexing in the Arun Tectonic Window of the Eastern Nepalese Himalaya. 2022 , 10,	
204	Bilateral heterogeneity in an upwelling mantle via double subduction of oceanic lithosphere.	O
203	The mantle structure below petit-spot volcanoes. 2022 , 3,	1
202	Geochemical evidence for incorporation of subducting sediment-derived melts into the mantle source of Paleozoic high-Mg andesites from northwestern Tianshan in western China.	1
201	Petrogenesis of Eocene high-silica granites in the Maliaoshan area, northern Tibet: Implications for the Eocene magmatic flare-up in the Northern Qiangtang Block. 2022 , 105268	
200	Chromium isotope fractionation during magmatic processes: Evidence from mid-ocean ridge basalts. 2022 , 327, 79-95	О

199	Oxidized mantle sources of HIMU- and EM-type Ocean Island Basalts. 2022, 602, 120901		1
198	Nd-Hf isotopic systematics of the arc mantle and their implication for continental crust growth. 2022 , 602, 120897		O
197	Nature of the Late Cretaceous mantle source beneath the western Lhasa terrane, southern Tibet: Insights from the newly discovered mafic intrusion. 2022 , 420-421, 106712		О
196	Temporal variations in the geochemistry of Mesozoic maficIntermediate volcanic rocks in the northern Great Xing'an Range, Northeast China, and implications for deep lithospheric mantle processes. 2022 , 422-423, 106721		Ο
195	Decoupled Trace Element and Isotope Compositions Recorded in Orthopyroxene and Clinopyroxene in Composite Pyroxenite Veins from the Xiugugabu Ophiolite (SW Tibet).		О
194	Rift-related multistage evolution of the Mangalwar Complex, Aravalli Craton (NW India): Evidence from elemental and SrNd isotopic features of Proterozoic amphibolites.		O
193	Magmatic Complexes of the Stalemate Ridge, Northwest Pacific, and Their Possible Origin. 2022 , 60, 430-449		
192	Reactive harzburgite and ultimate dunite formation as a result of boninite-like melt interaction: Petrological evidence from the K^- rda \bar{b} phiolite (Erzurum, NE Turkey). 2022 , 104601		
191	Petrogenesis of the Yeonhwa ultrapotassic intrusions in the Yeongnam Massif E vidence for enrichment of the Triassic continental lithospheric mantle beneath the Korean peninsula. 2022 , 422-423, 106739		
190	Water storage capacity of the Martian mantle through time. 2022 , 115113		
189	Rapid transition to fertile magma and promotion of porphyry mineralization: A case study from the Don Javier deposit. 2022 , 104964		
188	The record of plume-arc interaction in the Southern SB Francisco Craton Insights from the Pitangui greenstone belt. 2022 , 116, 103857		
187	Clay deposits of Ngoma (Douala sedimentary subbasin Cameroon, Central Africa): a provenance study. 2022 , 15,		О
186	Implications of high-Mg# adakitic magmatism at Hunter Ridge for arc magmatism of the Fiji - Vanuatu region. <i>Earth and Planetary Science Letters</i> , 2022 , 590, 117592	5.3	
185	Prospective PyroxeniteBeridotite Mixed Mantle Source for the Northern Carlsberg Ridge.		
184	Melt generation and trace element fractionation of intermediate arc magma from Andaman subduction zone. 2022 , 125899		
183	Constraints of barium isotopes on recycling of ancient oceanic crust in the mantle of the South China Sea. 2022 , 107608		О
182	Oxidation of Archean upper mantle caused by crustal recycling. 2022, 13,		3

181	Off-Rift Axis Channelized Melt and Lithospheric Metasomatism along Mid-Ocean Ridges 🖟 Case Study from Iceland on the Limits of Melt Channelling.	
180	Petrogenesis and tectonics of Eocene-Oligocene phonolites of Mecejana, Cear[INE Brazil: the role of the Fernando de Noronha fracture zone, Equatorial Atlantic.	
179	Unusual 26Mg values in oceanic crust basalts from the South China Sea.	О
178	Geochronology and petrogenesis of Neoproterozoic mafic dykes in the Aktash Tagh, SE Tarim Craton: New evidence for its tectonic setting and location in the Rodinia supercontinent. 2022 , 378, 106754	1 ^O
177	A ca. 1.33 Ga mafic dyke identified from the Liaodong Peninsula, northeastern North China Craton: Implications for eastward extension of the Yanliao large igneous province. 2022 , 378, 106770	Ο
176	Highly heterogeneous mantle caused by recycling of oceanic lithosphere from the mantle transition zone. <i>Earth and Planetary Science Letters</i> , 2022 , 593, 117679	O
175	Stable potassium (K) isotope characteristics at mid-ocean ridge hydrothermal vents and its implications for the global K cycle. <i>Earth and Planetary Science Letters</i> , 2022 , 593, 117653	0
174	Calcium isotope constraints on OIB and MORB petrogenesis: The importance of melt mixing. <i>Earth and Planetary Science Letters</i> , 2022 , 593, 117665	1
173	Carbonatitic pockets in intra-ocean arc volcanics (Qilian orogen): Petrogenesis and implications for carbon recycling in subduction zones. 2022 , 606, 120981	O
172	Unradiogenic lead isotopic signatures of the source mantle beneath the southernmost segment of the Central Indian Ridge. 2022 , 424-425, 106774	
171	The heterogeneous mantle massif in south Tibetan ophiolites and its implication for the tectonic evolution of Neo-Tethys. 2022 , 424-425, 106761	1
170	Decoupling between Mg and Ca isotopes in alkali basalts: Implications for geochemical differentiation of subduction zone fluids. 2022 , 606, 120983	Ο
169	Compositional variation of mafic calc-alkaline lavas at the submarine Pausanias Volcanic Field, western South Aegean Volcanic Arc: Implications for magma formation and ascent. 2022 , 424-425, 106760	
168	Mantle source characteristics of the late Neoproterozoic post-collisional gabbroic intrusion of Wadi Abu Hadieda, north Arabian-Nubian Shield, Egypt. 2022 , 194, 104607	2
167	Multi-stage evolution of the Lost City hydrothermal vent fluids. 2022,	O
166	Accretion Processes of Oceanic Crust in Clow-spreading Ridges: Plagiogranite Perspective of the Xigaze Ophiolite, South Tibet.	
165	Sulfur isotope and trace element systematics in arc magmas: seeing through the degassing via a melt inclusion study of Kyushu Island volcanoes, Japan.	О
164	New geochronological and geochemical data for the Eocene shoshonitic trachyandesites in NW Iran: Constraints on their petrogenesis and tectonic setting. 2022 , 106805	

163	Fluid-mediated Mass Transfer between Mafic and Ultramafic rocks in Subduction Zones.	1
162	Rapid early Permian tectonic reorganization of Laurential plate margins: evidence from volcanic tuffs in the Permian Basin, USA. 2022 ,	1
161	Crust sequences of the Xigaze ophiolite in South Tibet: The water effect on crust accretion at a slow-spreading oceanic ridge and its implications. 2022 , 106804	О
160	Mineral Inclusions in Lithospheric Diamonds. 2022 , 88, 307-391	3
159	Ultramafic Rocks and Their Alteration Products From Northwestern Allaqi Province, Southeastern Desert, Egypt: Petrology, Mineralogy, and Geochemistry. 10,	2
158	Supra-subduction zone ophiolite generated by the initial subduction of an Early Paleozoic island arc system abutting the northern North China Craton: Evidence from meta-igneous rocks. 2022 , 110, 90-106	
157	Petrogenesis of submarine volcanic rocks dredged from Dokdo, Ulleungdo, and the neighboring seamounts in the East Sea: Constraints from mineral chemistry, geochemistry, and 40Ar/39Ar ages. 2022 , 426-427, 106783	O
156	Age, geochemistry and mantle source of the Alto Diamantino basalts: Insights on NW Paran [®] Magmatic Province. 2022 , 426-427, 106797	O
155	Mantle plumestagnant slab interaction controls the generation of a mixed mantle source for continental intraplate basalts. 2022 , 426-427, 106795	
154	Genesis of Pyroxenite Veins in the Zedang Ophiolite, the Southern Tibetan Plateau.	O
153	The high-K calc-alkaline to shoshonitic volcanism of Limnos, Greece: implications for the geodynamic evolution of the northern Aegean. 2022 , 177,	О
152	Petrogenesis, tectonic setting, and metallogenic significance of the Middle Permian volcanic rock system of the Miaoling Formation, Yanbian area, NE China: Constraints from geochronology, geochemistry, and Sr\d\f\d\f\f\f\f\f\ isotopes. 2022, 125902	
151	Size and composition of the MORB+OIB mantle reservoir.	О
150	Genesis of oceanic oxide gabbros and gabbronorites during reactive melt migration at transform walls (Doldrums Megatransform System; 7-8°N Mid-Atlantic Ridge).	O
149	Magnesium and calcium isotopic geochemistry of silica-undersaturated alkaline basalts: Applications for tracing recycled carbon.	O
148	Recycled Crustal Components of the Iceland Plume Centre: Ultra-Dehydrated Crust and Oxidised Water-Bearing Fertile Mantle.	
147	Evolution of the northern part of the Lesser Antilles arc (Geochemical constraints from St. Barthlemy Island lavas.	
146	Compositional Data Analysis (CoDA) of Clinopyroxene from Abyssal Peridotites.	1

145	Temporal variations in the diversity of primitive melts supplied to the Santorini silicic magmatic system and links to lithospheric stresses. 2022 , 177,	1
144	Magnesium and zinc isotopic evidence for the involvement of recycled carbonates in the petrogenesis of Gaussberg lamproites, Antarctica. 2022 , 121067	O
143	Evidence for Protracted Intracrustal Reworking of Palaeoarchaean Crust in the Pilbara Craton (Mount Edgar Dome, Western Australia). 2022 , 2022,	
142	The effect of supercritical fluids on Nb-Ta fractionation in subduction zones: Geochemical insights from a coesite-bearing eclogite-vein system. 2022 ,	O
141	Lunar Heat Flow: Global Predictions and Reduced Heat Flux.	O
140	Characterization of Viscous Dissipative Heating in the Earth® Mantle Caused by Surface Forces.	
139	High pressure-temperature phase equilibrium studies on Martian basalts: Implications for the failure of plate tectonics on Mars. 2022 , 594, 117751	O
138	The influence of crustal recycling on the molybdenum isotope composition of the Earth's mantle. 2022 , 595, 117760	O
137	A global review of Hf-Nd isotopes: New perspectives on the chicken-and-egg problem of ancient mantle signatures. 2022 , 609, 121039	
136	Heterogeneous orogenic lithospheric mantle beneath the North Qaidam orogen: Geochemical evidence from syn-exhumation and post-collisional mafic magmatic rocks. 2022 , 428-429, 106841	
135	Volcanism at the end of continental rifting: The Cretaceous syn-rift to post-rift transition in the Songliao Basin (NE China). 2022 , 111, 174-188	O
134	The Geochemical Evolution of Santa Cruz Island, Galpagos Archipelago. 10,	O
133	Intrusive magmatism strongly contributed to the volatile release into the atmosphere of early Earth.	O
132	Composition and Isotope Parameters of Metabasalts and Gabbroids of the Onot Granite@reenstone Block, Southwestern Siberian Platform, as Indicators of Lithospheric Mantle Evolution from the Archean to Paleoproterozoic. 2022 , 30, 499-522	O
131	No measurable calcium isotopic variations of back-arc lavas across the Okinawa Trough. 2022 , 452, 106903	O
130	Exploring rift geodynamics in Ethiopia through olivine-spinel Al-exchange thermometry and rare-earth element distributions. 2022 , 597, 117820	O
129	Revisiting the origin of the Carboniferous Oytag pluton in West Kunlun orogenic belt, northwest China. 2022 , 430-431, 106877	O
128	Modern-style plate tectonics manifested by the late Neoarchean TTG-sanukitoid suite from the Datong-Huai'an Complex, Trans-North China Orogen. 2022 , 430-431, 106843	O

127	Barium isotope evidence of a fluid-metasomatized mantle component in the source of Azores OIB. 2022 , 610, 121097	О
126	Open-system 182W142Nd isotope evolution of the Earth. 2022 , 611, 121104	O
125	Lower Sequence Metavolcanic Rocks. 2022 , 235-286	O
124	Upper Sequence Metavolcanic Rocks. 2022 , 287-312	O
123	Barium isotopes in ocean island basalts as tracers of mantle processes. 2022,	O
122	The age and origin of the Balleny and Scott volcanic provinces, Ross Sea, Antarctica. 2022, 125904	O
121	Experimental Constraint on Ca-Rich Carbonatite Melt-Peridotite Interaction and Implications for Lithospheric Mantle Modification Beneath the North China Craton. 2022 , 127,	2
120	Nature and origin of anorthosite enclaves within Proterozoic granite of Chotanagpur Granite Gneiss Complex of Eastern India. 10,	O
119	FastChem 2: An improved computer program to determine the gas-phase chemical equilibrium composition for arbitrary element distributions.	0
118	From geochemistry to ecotoxicology of rare earth elements in aquatic environments: Diversity and uses of normalization reference materials and anomaly calculation methods. 2022 , 158890	O
117	Lithostratigraphy, Origin, and Geodynamic Setting of Iron Formations and Host Rocks of the Anyouzok Region, Congo Craton, Southwestern Cameroon. 2022 , 12, 1198	O
116	Mixing Loops, Mixing Envelopes, and Scattered Correlations among Trace Elements and Isotope Ratios Produced by Mixing of Melts Derived from a Spatially and Lithologically Heterogenous Mantle. 2022 , 63,	O
115	Present-Day Upper-Mantle Architecture of the Alps: Insights From Data-Driven Dynamic Modeling. 2022 , 49,	O
114	Rapid shifting of a deep magmatic source at Fagradalsfjall volcano, Iceland. 2022 , 609, 529-534	O
113	Heavy rare earth elements and the sources of continental flood basalts.	O
112	Preferential Formation of Chlorite Over Talc During Si-Metasomatism of Ultramafic Rocks in Subduction Zones. 2022 , 49,	O
111	The age of Vedi alkaline lamprophyre diatreme. 2022 , 75, 16-28	O
110	Insights into the Tethyan Mantle Heterogeneity: Trace Element Evidence from the Karakaya Complex, Central Anatolia. 2022 , 100139	O

109	Petrogenesis and tectonic implications of Cenozoic mafic volcanic rocks in the Kahak area of central Urumieh Dokhtar magmatic arc, Iran. 2022 , 239, 105404	0
108	Continental growth during migrating arc magmatism and terrane accretion at Sikhote-Alin (Russian Far East) and adjacent northeast Asia. 2022 , 432-433, 106891	1
107	Geochemistry of volcanic rocks and dykes from the Remeshk-Mokhtarabad and Fannuj-Maskutan Ophiolites (Makran Accretionary Prism, SE Iran): New constraints for magma generation in the Middle East Neo-Tethys. 2022 , 100140	0
106	Metamorphism and Deformation on Subduction Interfaces II: Petrological and Tectonic Implications.	1
105	Generation of Continental Lithospheric Mantle by Tectonic Isolation of Oceanic Plate.	О
104	High-C content and CO2/Ba ratio of the Earth® enriched upper mantle. 2022 ,	O
103	Crustal Contamination of the Mantle-Derived Liuyuan Basalts: Implications for the Permian Evolution of the Southern Central Asian Orogenic Belt. 2022 , 33, 1081-1094	Ο
102	A snapshot of the transition from monogenetic volcanoes to composite volcanoes: case study on the Wulanhada Volcanic Field (northern China). 2022 , 34, 469-491	Ο
101	The Magmatic Evolution and the Regional Context of the 1835 AD Osorno Volcano Products (41°06B, Southern Chile).	0
100	Heavy Copper Isotopes in Arc-Related Lavas From Cold Subduction Zones Uncover a Sub-Arc Mantle Metasomatized by Serpentinite-Derived Sulfate-Rich Fluids. 2022 , 127,	1
99	Temporal evolution of mantle temperature and lithospheric thickness beneath the ~1.1 Ga Midcontinent Rift, North America: Implications for rapid motion of Laurentia. 2022 , 598, 117848	0
98	Timing and Petrogenesis of the Permo-Carboniferous Larvik Plutonic Complex, Oslo Rift, Norway: New Insights from U-Pb, Lu-Hf and O Isotopes in Zircon.	0
97	A Highly Depleted and Subduction-Modified Mantle Beneath the Slow-Spreading Mohns Ridge. 2022 , 23,	1
96	Episodic alteration within a gold-bearing Archean shear zone revealed by in situ biotite Rb B r dating. 2022 , 382, 106872	O
95	Magnesium isotopic composition of back-arc basin lavas and its implication for the recycling of serpentinite-derived fluids. 2022 , 453, 106921	0
94	Protolith and metamorphic age of the Sieggraben Eclogites: Implications for the Permian to Cretaceous Wilson cycle in the Austroalpine unit. 2022 , 434-435, 106923	O
93	Abrolhos Magmatic Province petrogenesis and its link with the Vitfia-Trindade Ridge, Southeast Brazilian Margin, South Atlantic Ocean. 2022 , 120, 104075	0
92	Low-degree melt metasomatic origin of heavy Fe isotope enrichment in the MORB mantle. 2023 , 601, 117892	Ο

91	Proterozoic mantle melting recorded by the Re-Os isotopic systematics of ophiolites from the Qilian Orogenic Belt, northwestern China. 2023 , 241, 105479	0
90	Defining Earth's elusive thermal budget in the presence of a hidden reservoir. 2023 , 601, 117893	О
89	Element mobility and Mg isotope fractionation during peridotite serpentinization. 2023, 340, 21-37	O
88	Barium isotope composition of depleted MORB mantle constrained by basalts from the South Mid-Atlantic Ridge (5111°S) with implication for recycled components in the convecting upper mantle. 2022,	O
87	Growth of the upper crust in intra-oceanic island arcs by intrusion of basaltic magmas: the case of the Koloula Igneous Complex, Guadalcanal, Solomon Islands (SW Pacific). 2022 , 177,	O
86	Vertical depletion of ophiolitic mantle reflects melt focusing and interaction in sub-spreading-center asthenosphere. 2022 , 13,	O
85	Tholeiitic to calc-alkaline and alkaline volcanisms in an extensional arc setting of a Tethyan ophiolite: insights from small-scale compositional and temporal transitions from the Dali sector (Armenia). 2022 , 105478	0
84	Asynchronous accretion can mimic diverse white dwarf pollutants I: core and mantle fragments.	O
83	Link between melt-impregnation and metamorphism of Atlantis Massif peridotite (IODP Expedition 357). 2022 , 177,	0
82	The effect of collisional erosion on the composition of Earth-analog planets in Grand Tack models: Implications for the formation of the Earth. 2022 , 115325	O
81	Nb-Ta fractionation by amphibole and biotite during magmatic evolution: Implications for the low Nb/Ta ratios of continental crust. 2022 , 106941	О
80	Isotopic constraints on Davis bank, Vitfia-Trindade Ridge: A Revised Petrogenetic Model. 2022 , 104099	O
79	The earliest stage of mantle-melt evolution during subduction initiation: Evidence from the Neo-Tethyan Mirdita Ophiolite, Albania. 2022 , 434-435, 106937	О
78	Barium isotope evidence for the generation of peralkaline granites from a fluid-metasomatized crustal source. 2022 , 614, 121197	O
77	Tracing mantle components and the effect of subduction processes beneath the northern Antarctic Peninsula. 2022 ,	Ο
76	On the origin of small-scale seismic scatters at 660-km depth.	O
75	Nb mineralization in the nepheline syenite in the Saima area of the North China Craton, China. 2023 , 152, 105247	О
74	Abyssal and forearc features of mantle peridotites in the Guleman ophiolite in SE Turkey. 2023 , 436-437, 106958	1

73	Petrogenesis of late Cenozoic high Mg andesites with high Nb/Ta ratios in Northern Songliao Basin, NE China. 2023 , 436-437, 106954	О
72	Geodynamic, geodetic, and seismic constraints favour deflated and dense-cored LLVPs. 2023 , 602, 117964	1
71	Prospective pyroxeniteperidotite mixed mantle source for the northern Carlsberg Ridge. 2023 , 436-437, 106980	О
70	Origin of the oldest (3600B200´Ma) cratonic core in the Western Dharwar Craton, Southern India: Implications for evolving tectonics of the Archean Earth. 2023 , 236, 104278	O
69	Effects of variable slab components and tectonics on magma composition in the intra-oceanic Kermadec Arc-Backarc system. 2023 , 616, 121246	O
68	Large-scale replacement of ancient mantle lithosphere during supercontinent assembly: Evidence from the South China Craton. 2023 , 436-437, 106948	O
67	Constraints on Paleoproterozoic crustal growth from Birimian Supergroup lavas of the Bui belt (Ghana) in the West African Craton. 2023 , 384, 106926	О
66	Making the Juvenile lower continental crust by melting of contaminated oceanic mantle wedge: Evidence from the Chilas Complex in the Kohistan Island Arc, North Pakistan. 2023 , 436-437, 106952	O
65	Geochronology and geochemistry of the Panjal Traps from the southern Pir Panjal Range, Kashmir, India. 2023 , 436-437, 106967	О
64	Light Fe isotopes in arc magmas from cold subduction zones: Implications for serpentinite-derived fluids oxidized the sub-arc mantle. 2023 , 342, 1-14	1
63	The Norian magmatic rocks of Jabuka, Brusnik and Vis Islands (Croatia) and their bearing on the evolution of Triassic magmatism in the Northern Mediterranean. 1-22	О
62	New Insights Into the Petrogenesis of Voluminous Crustal-Signature Silicic Volcanic Rocks of the Toba Eruptions (Indonesia). 2022 , 127,	O
61	Olivine and melt inclusion chemical constraints on the nature and origin of the common mantle component beneath eastern Asia. 2022 , 177,	О
60	Iron isotopic variations in basalts from oceanic crust due to low-temperature seawater alteration. 2022 , 454, 106949	Ο
59	Discovery of Ultra-Depleted Melt Inclusion in Late Cretaceous Intracontinental Basaltic Andesites in South China: Implications for Recycling of Lower Oceanic Crust. 2022 , 127,	О
58	Geophysical-Petrological Model for Bidirectional Mantle Delamination of the Adria Microplate Beneath the Northern Apennines and Dinarides Orogenic Systems. 2022 , 127,	O
57	Petrogenesis of lavas from Mokolo-Kossĥone region, northernmost segment of the Cameroon Volcanic Line: constraints from major/trace elements and Sr-Nd-Pb isotopic data.	О
56	Zirconium and its stable isotopes in igneous systems. 2022 , 104289	O

55	The Meaning of Pressure for Primary Magmas: New Insights from PRIMELT3-P.	О
54	Mantle thermochemical variations beneath the continental United States through petrologic interpretation of seismic tomography. 2023 , 602, 117965	O
53	Triassic evolution of the Adriatic-Dinaridic platform continental margins finsights from rare dolerite subvolcanic intrusions in External Dinarides, Croatia. 2023 , 355, 35-62	О
52	Primary minerals and mantle peridotites in Late Cretaceous ophiolites of Iran: a review. 1-25	O
51	An early Eocene magmatic event in southern Tibet triggered by oceanic slab break-off: evidence from ocean island basalt-like mafic rocks. 2023 , 178,	О
50	Trace element evidence for serial processing of the lunar flotation crust and a depleted bulk Moon. 2023 , 602, 117958	O
49	Geochemistry of Precambrian dyke swarms in the Singhbhum craton, India: Implications for recycled crustal components in the mantle source. 10,	O
48	Hydrocarbon formation in CaCO ₃ HeOH ₂ OBiO ₂ and Fe ₃ CH ₂ OBiO ₂ systems	O
47	Petrogenesis and tectonic significance of two bimodal volcanic stages from the Ediacaran Campo Alegre-Corup[Basin (Brazil): Record of metacratonization during the consolidation of Western Gondwana. 2023 , 385, 106950	О
46	Inverse Modeling to Constrain Composition of CO2-Rich Parental Melt of Kimberlite: Model Development and Application to the Majuagaa Dyke, Southern West Greenland.	O
45	Two types of slab components under Ecuadorian volcanoes supported by primitive olivine-hosted melt inclusion study. 2023 , 107049	0
44	Crystallization Parameters, Genesis of Melts, and Sources of Magmas of the Late Cenozoic Udokan Volcanic Plateau, Central Asia. 2022 , 30, S1-S24	O
43	The First Occurrence of Platinum Group Minerals in Ultramafic Rocks of the Kyzyr B urlyuk Massif (Western Sayan Mountains, Russia). 2022 , 64, 550-561	0
42	Observations and Models of Dynamic Topography: Current Status and Future Directions. 2023 , 223-269	O
41	Arc volcano activity driven by small-scale metasomatism of the magma source. 2023 , 16, 363-370	0
40	Role of Depleted-MORB Mantle in the Genesis of Basalts from the Neoarchean Eastern Felsic Volcanic Terrane of the Sandur Greenstone belt, Dharwar Craton, India. 2023 , 99, 331-337	O
39	Various fluids and complex geochemical processes in the subduction channel: Constraints from the ultrahigh pressure metamorphic belt of Southwestern Tianshan, China. 2023 , 442-443, 107077	O
38	Sluggish lithium isotopic response of continental intraplate basalts to recycled sedimentary carbonate. 2023 , 442-443, 107062	O

37	Isotopic decoupling of K from Sr and Nd in the Saima alkaline complex, NE China: interactions of cratonic roots and asthenosphere. 1-8	O
36	A peridotite source for strongly alkalic ultrabasic HIMU lavas of the Oslo Rift, Norway. 2023 , 622, 121377	O
35	Arc magmatic evolution and porphyry copper deposit formation under compressional regime: A geochemical perspective from the Toquepala arc in Southern Peru. 2023 , 240, 104383	0
34	Temporal geochemical variation in early Paleozoic mafic rocks from the Qinling orogen: Implications for the evolution of slab fluids during oceanic subduction. 2023 , 624, 121431	O
33	High magnesian schist, granitic gneiss, amphibolite and monzogneiss in the eastern Ama Drime Massif in South Tibet (China): A rifted Paleoproterozoic arc fringed the western Columbia supercontinent?. 2023 , 388, 106972	О
32	Magmatic cycles in Santos Basin (S.E. Brazil): Geochemical characterization and magmatic sources. 2023 , 126, 104323	O
31	Arc signatures in abyssal peridotites and its implications. 2023 , 197, 104027	O
30	Zircon UPb ages and SrNdPbHf isotopic compositions constrain the tectono-magmatic evolution of the Anomaly 21-A iron ore region, Bafq metallogenic province, Central Iran. 2023 , 250, 105646	O
29	Mantle metasomatism and refertilization beneath the SW margin of the SB Francisco Craton, Brazil. 2023 , 448-449, 107164	O
28	The Phosphorus Budget of the Silicate Earth Based on an Updated Estimate of the P/Nd Ratio. 2023 , 128,	O
27	Formation of Ultra-Depleted Mantle Peridotites and Their Relationship With Boninitic Melts: An Example From the Kamuikotan Unit, Hokkaido, Japan. 2023 , 128,	O
26	Stratigraphy, volcanic processes and evolution of the Martin Vaz archipelago. 2023 , 123, 104191	O
25	Slab dehydration and magmatism in the Kurile arc as a function of depth: An investigation based on B-Sr-Nd-Hf isotopes. 2023 , 621, 121373	О
24	The isotopic origin of Lord Howe Island reveals secondary mantle plume twinning in the Tasman Sea. 2023 , 622, 121374	O
23	Magmatic evolution of the Calc-alkaline Middle Jurassic igneous rocks in the eastern pontides, NE Turkey: insights from geochemistry, whole-rock Sr-Nd-Pb, in situ zircon Lu-Hf isotopes, and U-Pb geochronology. 1-22	О
22	Cerium-Nd isotope evidence for an incompatible element depleted Moon. 2023 , 606, 118018	O
21	Niobium-enriched basalts: Partial melting of a sediment-metasomatised mantle source in subduction zones?. 2023 , 622, 121391	О
20	Coordination Changes in Densified Aluminate Glass upon Compression up to 65 GPa: A View from Solid-State Nuclear Magnetic Resonance. 2023 , 14, 2078-2086	O

19	Trace Element Evidence of Subduction-Modified Mantle Material in South Mid-Atlantic Ridge 18🛮 1°S Upper Mantle. 2023 , 11, 441	О
18	Recycled Carbonate-Bearing Silicate Sediments in the Sources of Circum-Mediterranean K-Rich Lavas: Evidence From Mg-Zn Isotopic Decoupling. 2023 , 128,	2
17	Zinc isotope fractionation during mid-ocean ridge basalt differentiation: Evidence from lavas on the East Pacific Rise at 10°30?N. 2023 , 346, 180-191	О
16	Geochemistry of Waziristan Ophiolite Complex, Pakistan: Implications for Petrogenesis and Tectonic Setting. 2023 , 13, 311	O
15	Relict abyssal mantle in a Caribbean forearc ophiolite (Villa Clara, central Cuba): petrogenetic and geodynamic implications. 1-32	О
14	Huge Variation in H 2 Generation During Seawater Alteration of Ultramafic Rocks. 2023, 24,	O
13	Mantle-derived high-K magmatic fluxes in northeast Iran arc: Constraints from zircon U-Pb-O-Hf and bulk rock major-trace elements and Sr-Nd-Pb isotopes. 2023 , 119, 1-26	О
12	Late Eocene slab retreat, extension, and mantle upwelling inferred from mantle signatures in potassium-rich magmatism in NE Iran. 2023 , 65, 1586-1600	O
11	The complex construction of a glaciovolcanic ridge with insights from the 2021 Fagradalsfjall Eruption (Iceland). 11,	О
10	Halogen enrichment in the North American lithospheric mantle from the dehydration of the Farallon plate. 2023 , 348, 187-205	O
9	Petrological and geochemical evidence for partial melting and melt-rock interaction in mantle rocks from the eastern part of the Sabzevar ophiolite, NE Iran. 1-24	О
8	Deciphering mantle heterogeneity associated with ancient subduction-related metasomatism: Insights from Mg-K isotopes in potassic alkaline rocks. 2023 , 348, 258-277	O
7	From rifting to emplacement: Variable mantle melting preserved in the central Palawan Ophiolite peridotites, Philippines. 1-20	О
6	Perovskite geochronology and petrogenesis of the Neoproterozoic Mad Gap Yards ultramafic lamprophyre dykes, East Kimberley region, Western Australia. 2023 , 178,	O
5	The Redox State of Incipient Oceanic Subduction Zones: An Example From the Troodos Ophiolite (Cyprus). 2023 , 128,	О
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3	Petrogenesis of mafic-intermediate dykes from the Central Qilian belt, NW China: Significance of the role of subducted compositions in sub-arc mantle.	0
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