Extraterrestrial cause for the cretaceous-tertiary extinction

DOI: 10.1126/science.208.4448.1095
Science, 1980, 208, 1095-108.

#	Paper	IF	Citations
2292	Imaging exoplanets. 761-764		
2291	Terminal Cretaceous catastrophe (reply). **1980**, 287, 760-760		3
2290	Late Eocene rings around the Earth?. **1980**, 288, 103-104		2
2289	Siderophile-enriched sediments from the Cretaceous–Tertiary boundary. **1980**, 288, 651-656		160
2288	A major meteorite impact on the Earth 65 million years ago: evidence from the cretaceous-tertiary boundary clay. *Science*, **1980**, 209, 921-3	33.3	169
2287	Paleontologists and Continental Drift. *Science*, **1980**, 210, 1200-1200	33.3	3
2286	Sudden death at the end of the Mesozoic. **1981**, 55, 317-334		116
2285	Review Lecture - Long time-scale fluctuations in the evolution of the Earth. **1981**, 375, 1-41		15
2284	The fascination of fluid mechanics. **1981**, 106, 59		51
2283	Paleobotany: Perspectives in 19801. **1981**, 7, 7-35		25
2282	What, if anything, is micropaleontology?1. **1981**, 7, 167-199		30
2281	Out with a whimper not a bang. **1981**, 7, 293-298		52
2280	Radioisotope Detection and Dating with Tandem Accelerators. **1981**, 28, 1469-1474		1
2279	Origin of bright ring-shaped craters in radar images of Venus. **1981**, 48, 428-452		6
2278	The earliest known Palaeocene mammal fauna and its implications for the Cretaceous–Tertiary transition. **1981**, 291, 650-652		19
2277	Sanidine spherules at the Cretaceous–Tertiary boundary indicate a large impact event. **1981**, 292, 47-49		137
2276	High noble metal concentrations in a late Pliocene sediment. **1981**, 292, 417-420		64

2275	Land plant evidence compatible with gradual, not catastrophic, change at the end of the Cretaceous. **1981**, 292, 529-531		64
2274	Upper Cretaceous to Eocene pelagic limestones of the Scaglia Rossa are not Miocene turbidites. **1981**, 294, 246-248		4
2273	Upper Cretaceous to Eocene pelagic limestones of the Scaglia Rossa are not Miocene turbidites (reply). **1981**, 294, 248-248		5
2272	Ultra-sensitive mass spectrometry with tandem accelerators. **1981**, 186, 463-477		16
2271	Rare isotope detection with tandem accelerators. **1981**, 191, 1-9		15
2270	Asteroid extinction hypothesis. *Science*, **1981**, 211, 648-50	33.3	22
2269	Asteroid extinction hypothesis. *Science*, **1981**, 211, 650-4	33.3	1
2268	Tunguska meteor fall of 1908: effects on stratospheric ozone. *Science*, **1981**, 214, 19-23	33.3	40
2267	An iridium abundance anomaly at the palynological cretaceous-tertiary boundary in northern new Mexico. *Science*, **1981**, 214, 1341-3	33.3	110
2266	Thirteen Years of Deep-Sea Drilling. **1982**, 10, 109-128		4
2265	Mass mortality and its environmental and evolutionary consequences. *Science*, **1982**, 216, 249-56	33.3	144
2264	Evidence for a major meteorite impact on the Earth 34 million years ago: implication for eocene extinctions. *Science*, **1982**, 216, 885-6	33.3	88
2263	ABSTRACTS OF PAPERS PRESENTED AT THE 45TH ANNUAL MEETING THE METEORITICAL SOCIETY SEPTEMBER 13□16,1982 ST. LOUIS, MISSOURI. **1982**, 17, 178-302		1
2262	Trace-element patterns at the Cretaceous-Tertiary boundary□consequences of a large impact. *Cretaceous Research*, **1982**, 3, 307-332	1.8	100
2261	Violent volcanism, stagnant oceans and some inferences regarding petroleum, strata-bound ores and mass extinctions. **1982**, 46, 2621-2637		77
2260	Age and provenance of the target materials for tektites and possible impactites as inferred from Sm-Nd and Rb-Sr systematics. **1982**, 60, 155-177		134
2259	The role of episodic bombardment in geophysics. **1982**, 57, 251-262		31
2258	A theory of group rationality. **1982**, 13, 55-72		35

2257	Relationship between an iridium anomaly and the North American microtektite layer in core RC9-58 from the Caribbean Sea. **1982**, 87, A425	19
2256	Iridium anomaly approximately synchronous with terminal eocene extinctions. *Science*, **1982**, 216, 886-8 33.3	112
2255	Human evolution. **1982**, 25, 583-602	38
2254	References. **1982**, 6, 192-219	
2253	Results of a Dating Attempt: Chemical and Physical Measurements Relevant to the Cause of the Cretaceous-Tertiary Extinctions. **1982**, 401-409	3
2252	Historic Eruptions of Tambora (1815), Krakatau (1883), and Agung (1963), their Stratospheric Aerosols, and Climatic Impact. **1982**, 18, 127-143	190
2251	Origin and evolution of planetary atmospheres: An introduction to the problem. **1982**, 30, 741-753	12
2250	The regulation of carbon dioxide and climate: Gaia or geochemistry. **1982**, 30, 795-802	58
2249	A message from triceratops?. **1982**, 96, 39-47	2
2248	Between history and physics. **1982**, 18, 265-82	26
2247	An analysis of the physical, chemical, optical, and historical impacts of the 1908 Tunguska meteor fall. **1982**, 50, 1-52	84
2246	BioFocus. **1982**, 12, 61-62	
2245	Extinctive evolution. **1982**, 97, 13-33	42
2244	Large-scale impact cratering on the terrestrial planets. **1982**, 2, 271-280	
2243	The Vredefort structure still not understood. **1982**, 295, 644-645	2
2242	Impact mechanics of the Cretaceous□Tertiary extinction bolide. **1982**, 298, 123-127	29
2241	Oceanic plateaus as meteorite impact signatures. **1982**, 299, 341-342	53
2240	Actualistic Catastrophism Address of the retiring President of the International Association of Sedimentologists. **1983**, 30, 3-9	23

2239	Extinction by comet or asteroid. **1983**, 303, 10-10		1
2238	Thermal neutrons could be a cause of biological extinctions 65 Myr ago. **1983**, 303, 797-800		3
2237	Extinctions, catastrophic and gradual. **1983**, 304, 396-7		6
2236	Palladium and nickel in north-east Pacific waters. **1983**, 305, 47-48		82
2235	Mass spectrometry: analytical capabilities and potentials. *Science*, **1983**, 222, 273-91	33.3	60
2234	Evidence suggesting gradual extinction of latest cretaceous Dinosaurs. **1983**, 70, 611-612		6
2233	Exponential evolution: implications for intelligent extraterrestrial life. **1983**, 3, 95-103		25
2232	The cretaceous-tertiary transition. *Science*, **1983**, 219, 1383-90	33.3	124
2231	Trilobite biofacies of the Cambrian-Ordovician boundary interval in northern North America. **1983**, 7, 301-319		56
2230	A study of mammalia and geology across the Cretaceous-Tertiary boundary in Garfield County, Montana. *Cretaceous Research*, **1983**, 4, 217-219	1.8	
2229	Upheavals in Biological Theory Undermine Sociobiology. **1983**, 1, 306		1
2228	Gaia as Seen Through the Atmosphere. **1983**, 15-25		16
2227	The past is the key to the future. **1983**, 47, 1341-1354		10
2226	Asteroids and comets. **1983**, 21, 196		2
2225	The geologic record of climatic change. **1983**, 21, 828		124
2224	Paleo-oceanography: Global ocean evolution. **1983**, 21, 1258		24
2223	Bunte Breccia of the Ries: Continuous deposits of large impact craters. **1983**, 21, 1667		154
2222	Nuclear winter: global consequences of multple nuclear explosions. *Science*, **1983**, 222, 1283-92	33.3	547

2221	Chemical and isotopic study of extraterrestrial particles from the ocean floor. **1983**, 64, 341-355		12
2220	Rb-Sr, Sm-Nd, K-Ca, O, and H isotopic study of Cretaceous-Tertiary boundary sediments, Caravaca, Spain: evidence for an oceanic impact site. **1983**, 64, 356-373		75
2219	Impact of an asteroid or comet in the ocean and extinction of terrestrial life. **1983**, 88, A799		18
2218	Asteroid and Comet Bombardment of the Earth. **1983**, 11, 461-494		200
2217	Clay mineralogy of the cretaceous-tertiary boundary clay. *Science*, **1983**, 219, 495-8	33.3	59
2216	Mass extinctions in the fossil record. *Science*, **1983**, 219, 1239-40	33.3	29
2215	Osmium-187/osmium-186 in manganese nodules and the cretaceous-tertiary boundary. *Science*, **1983**, 222, 613-5	33.3	145
2214	Environmental effects of an impact-generated dust cloud: implications for the cretaceous-tertiary extinctions. *Science*, **1983**, 219, 287-9	33.3	84
2213	Large-scale extinctions. *Science*, **1983**, 220, 9	33.3	25
2212	Iridium enrichment in airborne particles from kilauea volcano: january 1983. *Science*, **1983**, 222, 1118-21	33.3	206
2211	Experimental evidence that an asteroid impact led to the extinction of many species 65 million years ago. **1983**, 80, 627-42		76
2210	ABSTRACTS OF PAPERS PRESENTED AT THE 46th ANNUAL MEETING THE METEORITICAL SOCIETY SEPTEMBER 5, 1983 MAINZ, FRG. **1983**, 18, 259-433		
2209	Some Considerations Relating to an Interstellar Origin for Comets. **1983**, 6, 355-362		6
2208	Neutrons in science and technology. **1983**, 36, 31-39		1
2207	Effects of stratigraphic completeness on interpretations of extinction rates across the Cretaceous-Tertiary boundary. **1984**, 10, 420-438		38
2206	Catastrophes, expectations, and the evidence - Geological Implications of Impacts of Large Asteroids and Comets on the Earth.L. T. Silver and P. H. Schultz (eds.). Geological Society of America, Special Paper 190. 1982. xix + 528 pp. $40.00 (paper).. **1984**, 10, 121-137		22
2205	Chapter 7. The Two Phanerozoic Supercycles. **1984**, 129-150		70
2204	Patterns of Change in Earth Evolution. **1984**,		6

2203	Depositional model for calcilutites: Scaglia Rossa limestones, Umbro-Marchean Apennines. **1984**, 15, 223-241		8
2202	Disruption of the terrestrial plant ecosystem at the cretaceous-tertiary boundary, Western interior. *Science*, **1984**, 225, 1030-2	33.3	209
2201	Elemental anomalies at the cretaceous-tertiary boundary, woodside creek, new zealand. *Science*, **1984**, 226, 539-42	33.3	41
2200	Terminal cretaceous extinctions in the hell creek area, montana: compatible with catastrophic extinction. *Science*, **1984**, 223, 1177-9	33.3	56
2199	Periodicity of extinctions in the geologic past: deterministic versus stochastic explanations. *Science*, **1984**, 226, 689-92	33.3	67
2198	Paleoceanographic events and deep-sea ostracodes. *Science*, **1984**, 224, 1334-6	33.3	47
2197	Impact theory of mass extinctions and the invertebrate fossil record. *Science*, **1984**, 223, 1135-41	33.3	133
2196	Pre-Quaternary Sea-Level Changes. **1984**, 12, 205-243		269
2195	Geological rhythms and cometary impacts. *Science*, **1984**, 226, 1427-31	33.3	99
2194	Mineralogic evidence for an impact event at the cretaceous-tertiary boundary. *Science*, **1984**, 224, 867-9	33.3	244
2193	Ancient climates: investigation with climate models. **1984**, 47, 1563-1599		14
2192	Large Body Impacts Through Geologic Time. **1984**, 15-40		11
2191	Geologic framework of nonmarine cretaceous-tertiary boundary sites, raton basin, new Mexico and colorado. *Science*, **1984**, 223, 1180-3	33.3	60
2190	The Precursor of the Cretaceous-Tertiary Boundary Clays at Stevns Klint, Denmark, and DSDP Hole 465A. *Science*, **1984**, 226, 137-43	33.3	79
2189	A search for iridium abundance anomalies at two late cambrian biomere boundaries in Western utah. *Science*, **1984**, 223, 163-5	33.3	14
2188	The end of the cretaceous: sharp boundary or gradual transition?. *Science*, **1984**, 223, 1183-6	33.3	82
2187	Neutrons in science and technology. **1984**, 225, 240-279		4
2186	Accelerator mass spectrometry for heavy isotopes at Oxford (OSIRIS). **1984**, 5, 179-184		17

2185	Charge ratio mass spectrometry of heavy elements. **1984**, 5, 185-192		22
2184	Trace element patterns at a non-marine Cretaceous/Tertiary boundary. **1984**, 307, 224-228		58
2183	No geochemical evidence for an asteroidal impact at late Devonian mass extinction horizon. **1984**, 308, 629-631		31
2182	Terrestrial mass extinctions, cometary impacts and the Sun's motion perpendicular to the galactic plane. **1984**, 308, 709-712		224
2181	Are periodic mass extinctions driven by a distant solar companion?. **1984**, 308, 713-715		147
2180	Extinction of species by periodic comet showers. **1984**, 308, 715-717		212
2179	Evidence from crater ages for periodic impacts on the Earth. **1984**, 308, 718-720		195
2178	Extraterrestrial platinum group nuggets in deep-sea sediments. **1984**, 309, 693-695		89
2177	Orbital stability of the unseen solar companion linked to periodic extinction events. **1984**, 311, 641-642		27
2176	Iridium in Mississippi River suspended matter and Gulf of Mexico sediment. **1984**, 312, 260-262		28
2175	The atmospheric carbon dioxide response to oceanic primary productivity fluctuations. **1984**, 6, 153-166		7
2174	Tectonic effects of old very large meteoritic impacts on Earth showing on satellite imagery: a review and speculations. **1984**, 6, 737-747		4
2173	End-cretaceous brachiopod extinctions in the chalk of denmark. *Science*, **1984**, 223, 1174-7	33.3	64
2172	Genetic Revolutions in Relation to Speciation Phenomena: The Founding of New Populations. **1984**, 15, 97-132		399
2171	Bentonites in the Chalk of central eastern England and their relation to the opening of the Northeast Atlantic. **1984**, 67, 48-60		32
2170	Elemental and stable isotope variations of organic matter from a terrestrial sequence containing the Cretaceous/Tertiary boundary at York Canyon, New Mexico. **1984**, 68, 392-398		34
2169	An iridium rich layer at the Cretaceous/Tertiary boundary in the Bidart Section (southern France). **1984**, 11, 473-476		34
2168	Partition of radiotracers between suspended particles and seawater. **1984**, 48, 2011-2019		157

2167	Estimates of sulfur and chlorine yield to the atmosphere from volcanic eruptions and potential climatic effects. **1984**, 89, 6309-6325	280
2166	EFFECTS ON THE EARTH'S ATMOSPHERE. **1984**, 477-577	
2165	Iridium anomaly in the upper devonian of the canning basin, Western australia. *Science*, **1984**, 226, 437-933.3	98
2164	Radioisotope Detection and Dating With Particle Accelerators. **1984**, 7, 17-32	
2163	A QUANTITATIVE ANALYSIS OF EXTINCTIONS AT THE MESOZOIC-CENOZOIC BOUNDARY. **1984**, 26, 1006-10202	
2162	Periodicity of extinctions in the geologic past. **1984**, 81, 801-5	678
2161	X-ray microanalysis of crystalline material in the liver of a narcotics user. **1984**, 82, 236-9	5
2160	Palaeontology: Selective extinctions and terminal Cretaceous events. **1984**, 310, 276-276	18
2159	Pre-Pleistocene Paleoclimates: The Geological and Paleontological Evidence; Modeling Strategies, Boundary Conditions, and some Preliminary Results. **1984**, 35-140	14
2158	Phylogeny and classification of hominoidea as inferred from DNA sequence data.. **1984**, 60, 389-392	19
2157	Taphonomy's contributions to paleobiology. **1985**, 11, 105-119	193
2156	Nuclear Winter: A Matter of Degrees. **1985**, 38, 58-65	2
2155	Precious Metals and Living Organisms. **1985**, 10, 159-169	5
2154	EVIDENCE OF HIGH COSMIC DUST CONCENTRATIONS IN LATE PLEISTOCENE POLAR ICE (20,000–14,000 YEARS BP). **1985**, 20, 545-558	12
2153	Evolutionary paleoecology: recent contributions to evolutionary theory. **1985**, 11, 91-104	21
2152	The paradox of the first tier: an agenda for paleobiology. **1985**, 11, 2-12	219
2151	Der neue Katastrophismus: Fakten und Interpretation. **1985**, 72, 619-626	
2150	Autogenesis: the evolution of replicative systems. **1985**, 114, 303-21	84

2149	Palaeontology: Ammonoids and extinctions. **1985**, 313, 12-13	9
2148	Terrestrial catastrophism: Nemesis or galaxy? (reply). **1985**, 313, 503-503	1
2147	Magnetic reversals and mass extinctions. **1985**, 314, 341-3	85
2146	Terrestrial impactors at geological boundary events: comets or asteroids?. **1985**, 314, 517-518	27
2145	Late Eocene microtektites and radiolarian extinctions on Barbados. **1985**, 314, 613-615	54
2144	Patterns of family extinction depend on definition and geological timescale. **1985**, 315, 659-662	64
2143	Palaeotectonic implications of increased late Eocene–early Oligocene volcanism from South Pacific DSDP sites. **1985**, 316, 507-511	26
2142	Strangelove ocean before the Cambrian explosion. **1985**, 316, 809-811	106
2141	Climatic change with nuclear war. **1985**, 318, 99-99	2
2140	Velikovsky's evidence?. **1985**, 318, 204-204	
2139	Catastrophism is still viable. **1985**, 318, 238-238	2
2138	Linking impacts and plant extinctions. **1985**, 318, 318-318	4
2137	Geophysics 2001. **1985**, 7, 249-255	
2136	The synthesis of primitive 'living' forms: definitions, goals, strategies and evolution synthesizers. **1985**, 16, 129-49	8
2135	Impact and explosion crater ejecta, fragment size, and velocity. **1985**, 62, 328-338	50
2134	Evidence for a Solar Companion Star. **1985**, 112, 233-243	1
2133	Commission 51: Search for Extraterrestrial Life. **1985**, 19, 713-723	1
2132	Some Implications of Mass Extinction for the Evolution of Complex Life. **1985**, 112, 223-232	3

2131	Introduction. **1985**, 11, 1-1		8
2130	Terminal cretaceous environmental events. *Science*, **1985**, 227, 1161-7	33.3	205
2129	Jurassic to Paleogene: Part 2 Paleogene geochronology and chronostratigraphy. **1985**, 10, 141-195		80
2128	Late Cretaceous to early Tertiary magnetostratigraphy of a continental sequence: Red Deer Valley, Alberta, Canada. **1985**, 22, 567-583		53
2127	Deep-sea pelagic sediments and palaeo-oceanography: a review of recent progress. **1985**, 18, 95-121		5
2126	Dating of the human-ape splitting by a molecular clock of mitochondrial DNA. **1985**, 22, 160-74		6477
2125	Vertebrate paleoecology: A current perspective. **1985**, 50, 83-106		3
2124	Deccan traps mantle degassing in the terminal Cretaceous marine extinctions. *Cretaceous Research*, **1985**, 6, 235-259	1.8	147
2123	Toward Understanding the Effects of Nuclear War. **1985**, 35, 552-556		2
2122	Biological Effects of Nuclear War II: Impact on the Biosphere. **1985**, 35, 576-583		4
2121	Unmelted meteoritic debris in the Late Pliocene iridium anomaly: Evidence for the ocean impact of a nonchondritic asteroid. **1985**, 49, 1095-1108		41
2120	Metal precipitation in the Cretaceous-Tertiary boundary clay at Stevns Klint, Denmark. **1985**, 49, 2361-2370		60
2119	Recent Ph.D's. **1985**, 66, 153		
2118	Dinasour extinction and volcanic activity. **1985**, 66, 153		6
2117	Modeling of Paleoclimates. **1985**, 28, 159-196		47
2116	A sequence of events across the Cretaceous-Tertiary boundary. **1985**, 74, 155-170		131
2115	Carbon isotope geochemistry of the Cretaceous-Tertiary section of the Wasserfallgraben, Lattengebirge, southeast Germany. **1985**, 75, 50-58		5
2114	Siderophile interelement variations in the Cretaceous-Tertiary boundary sediments from Caravaca, Spain. **1985**, 73, 183-195		95

2113	A perspective on the evidence for periodic cometary impacts on Earth. **1985**, 76, 1-9		34
2112	Noble gas isotopic abundances and noble metal concentrations in sediments from the Cretaceous-Tertiary boundary. **1985**, 74, 27-34		9
2111	Three growth in the Mesozoic and Early Tertiary and the reconstruction of palaeoclimates. **1985**, 52, 35-59		117
2110	Formation of the Shelf-edge Cretaceous-Tertiary contact off the southeastern U.S. Coast. **1986**, 57, 117-135		1
2109	Diversity of turtles across the cretaceous/tertiary boundary in Northeastern Montana. **1986**, 55, 1-22		68
2108	Magnesioferrite from the Cretaceous-Tertiary boundary, Caravaca, Spain. **1986**, 81, 57-66		52
2107	Deccan flood basalts at the Cretaceous/Tertiary boundary?. **1986**, 80, 361-374		478
2106	Lunar glass and terrestrial extinctions. **1986**, 84, 309-317		
2105	Conservation in South america: problems, consequences, and solutions. *Science*, **1986**, 233, 734-9	33.3	46
2104	Iridium emissions from Kilauea Volcano. **1986**, 91, 653		81
2103	An iridium anomaly in the Middle-Lower Jurassic of the Venetian Region, northern Italy. **1986**, 91, E259		14
2102	Cretaceous/Tertiary boundary event. **1986**, 75-84		6
2101	Eocene-Oligocene paleoceanography. **1986**, 101-118		8
2100	Lightning strike fusion: extreme reduction and metal-silicate liquid immiscibility. *Science*, **1986**, 234, 189-93	33.3	123
2099	Phanerozoic Overview of Mass Extinction. **1986**, 277-295		114
2098	Iridium abundances across the ordovician-silurian stratotype. *Science*, **1986**, 233, 339-41	33.3	28
2097	Biological extinction in earth history. *Science*, **1986**, 231, 1528-33	33.3	314
2096	Geochemical delineation of the Cretaceous/Tertiary boundary in some New Zealand rock sequences. **1986**, 29, 1-8		14

2095 LIQUID CARBONIC SPECIALTY GAS CORPORATION. **1986**, 58, 982A-982A

2094 THE WORLDS. **1986**, 58, 968A-982A 0

2093 Danian dinoflagellate zonation, the C-T boundary and the stratigraphical position of the fish clay in southern Scandinavia. **1986**, 5, 37-47 44

2092 The impact of impacts and the nature of nature. **1986**, 67, 633 5

2091 Toward a theory of impact crises. **1986**, 67, 649 90

2090 Geomagnetic reversals from impacts on the Earth. **1986**, 13, 1177-1180 59

2089 Paleoceanography of the Cretaceous/Tertiary Boundary Event: Inferences from stable isotopic and other data. **1986**, 1, 5-26 156

2088 The Cretaceous/Tertiary Boundary Event in the North Pacific: Planktonic foraminiferal results from Deep Sea Drilling Project Site 577, Shatsky Rise. **1986**, 1, 97-117 48

2087 Tectonic cycles and the history of the Earth's biogeochemical and paleoceanographic record. **1986**, 1, 233-263 98

2086 The evolutionary significance of mass extinctions. **1986**, 1, 127-30 5

2085 Pattern and Process in Paleontology and Stratigraphy - Sedimentary and Evolutionary Cycles. U. Bayer and A. Seilacher (eds.). Springer Verlag; Heidelberg-Berlin-New York. 1985. $29.50.. **1986**, 12, 229-232 2

2084 Natural Analogues: Their Application to the Prediction of the Long-Term Behavior of Nuclear Waste Forms. **1986**, 84, 67 22

2083 Chapter 2. Terrestrial Vertebrate Diversity: Episodes and Insights. **1986**, 41-96 6

2082 Terminal Cretaceous sedimentary sequence recognized in the northernmost Japan based on planktonic foraminiferal evidence.. **1986**, 62, 145-148 7

2081 Origination, survivorship, and extinction of rudist taxa. **1986**, 60, 107-115 20

2080 Mass extinctions: Sensitivity of marine larval types. **1986**, 83, 6912-4 53

2079 ABSTRACTS OF PAPERS PRESENTED AT THE 49th ANNUAL MEETING THE METEORITICAL SOCIETY SEPTEMBER 22□5, 1986 NEW YORK, NY. **1986**, 21, 327-549

2078 The origin of comets. **1986**, 29, 53-112 43

2077	Applications of reactor neutrons other than scattering. **1986**, 137, 379-391		1
2076	Exobiology revisited. **1986**, 6, 187-92		6
2075	The boundary to the solar system as set by a hypothetical Solar companion. **1986**, 36, 211-215		2
2074	The Cretaceous/Tertiary boundary in the Gosau Basin, Austria. **1986**, 322, 794-799		51
2073	New method for the measurement of osmium isotopes applied to a New Zealand Cretaceous/Tertiary boundary shale. **1986**, 322, 816-817		34
2072	Magnetic reversals: From the core or the skies?. **1986**, 323, 296-297		2
2071	Mass extinctions: Catastrophic vegetation changes. **1986**, 324, 112-112		2
2070	Vegetation, climatic and floral changes at the Cretaceous-Tertiary boundary. **1986**, 324, 148-152		175
2069	Instrumental analytical techniques in geochemistry: Requirements and applications. **1986**, 324, 855-864		14
2068	An accurate procedure for the determination of low levels of iridium in standard reference materials by neutron activation analysis. **1986**, 99, 325-330		7
2067	Global Tertiary climatic changes, paleophytogeography and phytostratigraphy. **1986**, 417-427		1
2066	Evolution of the ratio of strontium-87 to strontium-86 in seawater from cretaceous to present. *Science*, **1986**, 231, 979-84	33.3	333
2065	High-resolution event stratigraphy: regional and global Cretaceous Bio-events. **1986**, 277-335		10
2064	Erratum. *Science*, **1986**, 234, 1486-1486	33.3	
2063	Global bioevents and the question of periodicity. **1986**, 47-61		30
2062	Conodont survival and low iridium abundances across the permian-triassic boundary in South china. *Science*, **1986**, 233, 984-6	33.3	64
2061	Latest Cretaceous occurrence of nodosaurid ankylosaurs (Dinosauria, Ornithischia) in Western North America and the gradual extinction of the dinosaurs. **1986**, 6, 251-257		18
2060	Palynological and iridium anomalies at cretaceous-tertiary boundary, South-central Saskatchewan. *Science*, **1986**, 231, 714-7	33.3	91

2059	Mesozoic-Cenozoic clastic depositional environments revealed by DSDP Leg 93 drilling on the continental rise off the eastern United States. **1986**, 21, 35-66		3
2058	Early Ordovician eustatic cycles and their bearing on punctuations in early nematophorid (planktic) graptolite evolution. **1986**, 139-152		23
2057	Dinosaurs, Nuclear Winter, and Kanizsa Figures: In Defense of Pure Science and Intellectual Curiosity. **1987**, 14, 48-50		1
2056	Towards one world. **1987**, 3, 75-76		
2055	Shocked quartz in the cretaceous-tertiary boundary clays: evidence for a global distribution. *Science* , **1987**, 236, 705-9	33.3	142
2054	Dinosaurs on the north slope, alaska: high latitude, latest cretaceous environments. *Science*, **1987**, 237, 1608-10	33.3	74
2053	Chapter 7 Stability of Planetary Atmospheres. **1987**, 36, 330-415		
2052	Biogeographic control of trilobite mass extinction at an Upper Cambrian Biomere boundary. **1987** , 13, 84-99		47
2051	REVISED AGE FOR THE GOSSES BLUFF IMPACT STRUCTURE, NORTHERN TERRITORY, AUSTRALIA, BASED ON 40Ar/39Ar DATING. **1987**, 22, 281-289		24
2050	Modelling Large Body Impacts. **1987**, 7, 136-138		
2049	The origin of dust in the Solar System. **1987**, 323, 421-436		10
2048	ABSTRACTS OF PAPERS PRESENTED AT THE 50th ANNUAL MEETING THE METEORITICAL SOCIETY JULY 20–24, 1987 NEWCASTLE UPON TYNE, U.K.. **1987**, 22, 313-545		
2047	A new Cretaceous-Tertiary boundary site at Flaxbourne River, New Zealand: Biostratigraphy and geochemistry. **1987**, 51, 2769-2777		60
2046	Opportunistic evolution: Abiotic environmental stress and the fossil record of plants. **1987**, 50, 151-178		61
2045	The reciprocal interaction of angiosperm evolution and tetrapod herbivory. **1987**, 50, 179-210		113
2044	The Cretaceous-Tertiary boundary events: External or internal causes?. **1987**, 68, 193		38
2043	The periodic structure of the natural record, and nonlinear dynamics. **1987**, 68, 1651		12
2042	On the current rate of formation of impact craters of varying sizes on the Earth and Moon. **1987**, 14, 216-219		7

2041	Rock magnetic signature of the Cretaceous-Tertiary boundary. **1987**, 14, 1083-1086		14
2040	Fluctuations in the trophic resource continuum: A factor in global diversity cycles?. **1987**, 2, 457-471		216
2039	Magnetostratigraphy: In pursuit of missing links. **1987**, 25, 939		4
2038	Black Holes and the Unification of Asymmetries. **1987**, 329-347		
2037	Sedimentology and extinction patterns across the Cretaceous-Tertiary boundary interval in east Texas. *Cretaceous Research*, **1987**, 8, 229-252	1.8	62
2036	The geology of ocean floor. **1987**, 291-300		
2035	Bolide impacts, acid rain, and biospheric traumas at the Cretaceous-Tertiary boundary. **1987**, 83, 1-15		165
2034	Numerical simulations and the problem of periodicity in the cratering record. **1987**, 82, 159-64		20
2033	Platinoid element Eh-pH diagrams (25 °C, 1 bar) in the systems M?O?H?S with geochemical applications. **1987**, 64, 17-24		18
2032	Primary productivity and the Cretaceous/Tertiary boundary event in the oceans. *Cretaceous Research*, **1987**, 8, 43-54	1.8	65
2031	Economics as mechanics and the demise of biological diversity. **1987**, 38, 107-121		32
2030	New early Jurassic tetrapod assemblages constrain Triassic-Jurassic tetrapod extinction event. *Science*, **1987**, 237, 1025-9	33.3	103
2029	End-cretaceous mass extinction event: argument for terrestrial causation. *Science*, **1987**, 238, 1237-42	33.3	131
2028	Palynological evidence for a diachronous low-salinity event in the C□ boundary clay at Stevns Klint, Denmark. **1987**, 6, 35-40		8
2027	References. **1987**, 18, 265-303		
2026	Emerging Themes in Evolution - Patterns and Processes in the History of Life. David M. Raup and David Jablonski (eds.). Springer-Verlag; Berlin. 1986. xi + 447 pp. $88.00.. **1987**, 13, 488-493		1
2025	Extinctions in a model taxonomic hierarchy. **1987**, 13, 193-207		14
2024	Experimental Evidence That an Asteroid Impact Led to the Extinction of Many Species 65 Million Years Ago. **1987**, 37-76		

2023	Host precipitates for trace analysis of heavy metal ions by laser excited fluorescence. **1987**, 36, 331-337	1
2022	Man's place in Hominoidea as inferred from molecular clocks of DNA. **1987**, 26, 132-47	103
2021	The frequency and intensity of comet showers from the Oort cloud. **1987**, 70, 269-288	70
2020	Time-dependent injection of Oort cloud comets into Earth-crossing orbits. **1987**, 71, 46-56	32
2019	Impact on the earth, ocean and atmosphere. **1987**, 5, 13-32	63
2018	The size distributions of fragments ejected at a given velocity from impact craters. **1987**, 5, 493-499	14
2017	Computer simulations of large asteroid impacts into oceanic and continental sites--preliminary results on atmospheric, cratering and ejecta dynamics. **1987**, 5, 525-541	78
2016	The Atmospheres of Venus, Earth, and Mars: A Critical Comparison. **1987**, 15, 171-212	79
2015	General relationships of mammalian orders and evolutionary development of primates inferred from best-fit □globin phylogenies. **1987**, 12, 165-174	
2014	Neutron activation determination of iridium, gold, platinum, and silver in geologic samples. **1987**, 113, 125-132	11
2013	On the methodology of radiochemical neutron activation analysis of noble matals. **1987**, 114, 281-291	8
2012	Neutron activation studies of refractory siderophile element anomaly and other trace element patterns in boundary clay between Permian/Triassic, Changxin, China. **1987**, 114, 293-301	2
2011	Determination of trace elements in Wuxi fallen ice by INAA. **1987**, 114, 345-349	4
2010	Rare-earth elements abundance and distribution in pelagic sediments by instrumental neutron activation analysis. **1987**, 112, 507-514	8
2009	Late Cretaceous and paroxysmal Cretaceous/Tertiary extinctions. **1987**, 326, 143-149	208
2008	Iridium anomalous no longer?. **1987**, 326, 331-332	11
2007	Comet showers as a cause of mass extinctions. **1987**, 329, 118-126	202
2006	Confusion at the boundary. **1987**, 329, 288-288	0

2005	The carbonate compaction law: a new tool. **1987**, 34, 571-584	42
2004	Global volcanism, biological mass extinctions and the galactic vertical motion of the solar system. **1987**, 89, 857-867	7
2003	Population genetics and the Cretaceous extinction. **1987**, 19, 487-96	
2002	Evidence for comet storms in meteorite ages. **1988**, 74, 369-373	8
2001	Where do the Apollo objects come from?. **1988**, 76, 1-18	117
2000	Primeval procreative comet pond. **1988**, 18, 209-38	54
1999	A novel approach to the determination of iridium via Ge-coincidence/NaI(Tl)-anticoincidence gamma-ray spectrometry. **1988**, 265, 468-474	10
1998	A neutron activation analysis of iridium concentration in Yamato carbonaceous chondrite. **1988**, 42, 301-302	1
1997	And then a miracle occurs Weak links in the chain of argument from punctuation to hierarchy. **1988**, 3, 3-28	4
1996	Shocked quartz grains at the Cretaceous-Tertiary boundary. **1988**, 75, 307-308	4
1995	Impact frustration of the origin of life. **1988**, 331, 612-4	326
1994	Rhodium distribution at the Cretaceous/Tertiary boundary analysed by ultrasensitive laser photoionization. **1988**, 332, 146-148	18
1993	Simulating the climatic effects of nuclear war. **1988**, 333, 221-227	33
1992	Rapid eruption of the Deccan flood basalts at the Cretaceous/Tertiary boundary. **1988**, 333, 841-843	362
1991	Evidence from cathodoluminescence for non-volcanic origin of shocked quartz at the Cretaceous/Tertiary boundary. **1988**, 334, 145-147	22
1990	Global fire at the Cretaceous Tertiary boundary. **1988**, 334, 665-669	174
1989	Dinoflagellate cysts, sea level changes and planktonic foraminifers across the Cretaceous-Tertiary boundary at El Haria, northwest Tunisia. **1988**, 13, 153-191	204
1988	Accelerator Mass Spectrometry (AMS) of heavy elements. **1988**, 35, 273-283	1

1987	Carpatella cornuta Grigorovich 1969 (Dinophyceae) a member of the Aptiana-Ventriosum complex. **1988**, 12, 167-177	10
1986	Magnetic properties of K/T and E/O microspherules: origin by combustion?. **1988**, 88, 193-208	9
1985	The Permian-Triassic boundary event: a geochemical study of three Chinese sections. **1988**, 90, 411-421	69
1984	The role of nutrient availability in bioerosion: Consequences to carbonate buildups. **1988**, 63, 275-291	252
1983	Survival of phytoplankton under prolonged darkness: Implications for the cretaceous-tertiary boundary darkness hypothesis. **1988**, 67, 305-314	11
1982	Biotic turnover in benthic foraminifera across the cretaceous/tertiary boundary at El Kef, Tunisia. **1988**, 66, 153-171	79
1981	Impacts and glacio-eustasy, plate-tectonic episodes, geomagnetic reversals: a concept to facilitate detection of impact events. **1988**, 50, 183-194	10
1980	Shocked quartz found at the K/T boundary. **1988**, 69, 961	14
1979	Iridium abundance maxima in the Upper Cenomanian extinction interval. **1988**, 15, 346-349	31
1978	A search for iridium in the Deccan Traps and Inter-Traps. **1988**, 15, 812-815	22
1977	Climatic response to large atmospheric smoke injections: Sensitivity studies with a tropospheric general circulation model. **1988**, 93, 8315	38
1976	The extraterrestrial component in marine sediments: Description and interpretation. **1988**, 3, 235-247	16
1975	Calcareous nannofossil biostratigraphy and assemblages of the Cenomanian-Turonian boundary interval: Implications for the origin and timing of oceanic anoxia. **1988**, 3, 275-316	101
1974	Early history of the Arctic Ocean. **1988**, 3, 539-550	16
1973	Imaging results from Dynamics Explorer 1. **1988**, 26, 249	159
1972	Iridium, sulfur isotopes and rare earth elements in the Cretaceous-Tertiary boundary clay at Stevns Klint, Denmark. **1988**, 52, 229-236	78
1971	Iridium in marine organisms. **1988**, 52, 1737-1739	9
1970	Dinoflagellate cysts from the cretaceous/tertiary boundary sequence of El Kef, Northwest Tunisia. **1988**, 56, 5-19	41

1969	Paleontology and paleoecology of the Newark Supergroup (early Mesozoic, eastern North America). **1988**, 22, 185-230		30
1968	Chapter 1 Ore-Related Diagenesis-An Encyclopedic Review. **1988**, 41, 25-553		1
1967	Organic-chemical clues to the theory of impacts as a cause of mass extinctions. **1988**, 43, 131-143		3
1966	Abrupt climate change and extinction events in Earth history. *Science*, **1988**, 240, 996-1002	33.3	132
1965	Palynology of Maastrichtian and Paleocene rocks, lower Colville River region, North Slope of Alaska. **1988**, 25, 512-527		29
1964	PARAMETERS OF THE CRETACEOUS-TERTIARY BOUNDARY IMPACT EVENT. **1988**, 30, 709-726		4
1963	THE CRETACEOUS-PALEOGENE BOUNDARY IN SOUTHERN TURKMENIA AND ITS GEOCHEMICAL CHARACTERISTICS. **1988**, 30, 121-135		2
1962	Neutron Activation Analysis of Platinum Group Elements as Indicators of Extraterrestrial Materials. **1988**, 24, 257-272		7
1961	GLOBAL EVENTS AS A FRAMEWORK FOR ECOSTRATIGRAPHIC CORRELATION. **1988**, 30, 11-15		
1960	Concepts and Methods of High-Resolution Event Stratigraphy. **1988**, 16, 605-654		76
1959	Terrestrial catastrophism: causes and effects. **1988**, 12, 509-532		4
1958	In reply: is the air in amber ancient?. *Science*, **1988**, 241, 719-20	33.3	1
1957	Seawater strontium isotopes, Acid rain, and the cretaceous-tertiary boundary. *Science*, **1988**, 239, 485-7	33.3	57
1956	Productivity change as a control on planktonic foraminiferal evolution after the cretaceous/tertiary boundary. **1988**, 1, 323-343		26
1955	A Model of Correlated Episodicity in Magnetic-Field Reversals, Climate, and Mass Extinctions. **1988**, 96, 1-15		55
1954	Terrestrial Maria: The Origins of Large Basalt Plateaus, Hotspot Tracks and Spreading Ridges. **1988**, 96, 647-662		64
1953	Trends as changes in variance: a new slant on progress and directionality in evolution. **1988**, 62, 319-329		224
1952	Eric Buffetaut, Jean-Jacques Jaeger, et Jean-Michel Mazin (organisateurs): Les Extinctions dans L'Histoire des Vſtebrš (Extinctions in Vertebrate History). **1988**, 8, 349-350		

1951	An iridium-rich calcareous claystone (Cretaceous-Tertiary boundary) from Wharanui, Marlborough, New Zealand. **1988**, 31, 191-195		6
1950	Early Tertiary radiation of marine molluscs and the long-term effects of the Cretaceous-Tertiary extinction. **1988**, 14, 37-51		60
1949	Patterns of generic extinction in the fossil record. **1988**, 14, 109-25		135
1948	Statistical and Evolutionary Aspects of Cometary Orbits. **1989**, 116, 487-535		1
1947	. **1989**,		
1946	The Valley of Hell Creek, Garfield County, Montana. **1989**, 60-66		
1945	Geochemical and isotopic anomalies associated with the Frasnian-Famennian extinction. **1989**, 2, 51-72		21
1944	Detection and significance of mass killings. **1989**, 2, 5-15		8
1943	A Geochemical Perspective on the Causes and Periodicity of Mass Extinctions. **1989**, 70, 812-823		5
1942	Why We Must Accept Nuclear Winter Theory. **1989**, 20, 81-88		
1941	Patterns of Life. **1989**,		7
1940	Geochemical anomaly at the Devonian/ Carboniferous BOUNDARY, Huangmao, Guangxi, China. **1989**, 2, 89-100		1
1939	Stable isotope and trace element stratigraphy across the Cretaceous/Tertiary boundary in Denmark. **1989**, 111, 305-312		20
1938	Evolutionary patterns in macrurous decapod crustaceans from Cretaceous to early Cenozoic rocks of the James Ross Island region, Antarctica. **1989**, 47, 183-195		9
1937	Stishovite at the cretaceous-tertiary boundary, raton, new Mexico. *Science*, **1989**, 243, 1182-4	33.3	39
1936	Geological and geochemical record of 3400-million-year-old terrestrial meteorite impacts. *Science*, **1989**, 245, 959-62	33.3	133
1935	40Ar-39Ar Dating of the Manson Impact Structure: A Cretaceous-Tertiary Boundary Crater Candidate. *Science*, **1989**, 244, 1565-8	33.3	31
1934	Mass extinctions: the view of a sceptic. **1989**, 146, 21-35		16

1933	A new quantitative radiochemical separation procedure to determine Ir at 10□12 g/g level in geological samples by a long chain primary amine extraction. **1989**, 130, 321-331	6
1932	Determination of iridium concentration in sedimentary rocks and in the geochemical standard PCC-1 by radiochemical neutron activation analysis. **1989**, 132, 261-267	4
1931	Calcareous nannofossil zonation of the Jurassic-Cretaceous boundary interval and correlation with the geomagnetic polarity timescale. **1989**, 14, 153-235	131
1930	Volcanism and nuclear winter. **1989**, 23, 2341-2344	
1929	Evolution, ideology, Darwinism and science. **1989**, 67, 923-8	
1928	The global fallout signature of the K-T bolide impact. **1989**, 77, 220-222	18
1927	The relevance of the background impact flux to cyclic impact/mass extinction hypotheses. **1989**, 79, 382-395	12
1926	Periodic mass extinctions: Difficulty with astronomical explanations. **1989**, 9, 211-217	
1925	The evolution of complex life. **1989**, 19, 863-8	
1924	SO2 from episode 48A eruption, Hawaii: Sulfur dioxide emissions from the episode 48A East Rift Zone eruption of Kilauea volcano, Hawaii. **1989**, 52, 113-117	22
1923	Jovian satellite Callisto: Possibility and consequences of its explosion. **1989**, 44, 7-23	7
1922	Extraterrestrial particles and the greenhouse effect. **1989**, 46, 297-300	2
1921	Impact production of C02 by the Cretaceous/Tertiary extinction bolide and the resultant heating of the Earth. **1989**, 338, 247-249	142
1920	Extraterrestrial amino acids in Cretaceous/Tertiary boundary sediments at Stevns Klint, Denmark. **1989**, 339, 463-5	131
1919	Manson structure implicated. **1989**, 340, 428-429	1
1918	Iridium anomaly from the Acraman impact ejecta horizon: impacts can produce sedimentary iridium peaks. **1989**, 340, 542-544	56
1917	High-resolution leaf-fossil record spanning the Cretaceous/Tertiary boundary. **1989**, 340, 708-711	76
1916	New constraints on early Tertiary palaeoproductivity from carbon isotopes in foraminifera. **1989**, 342, 526-529	40

1915	Giant Meteor Impacts and Great Eruptions: Dinosaur Killers?. **1989**, 39, 162-172	3
1914	Why the Precambrian time-scale should be chronostratigraphic: a response to recommendations by the Subcommission on Precambrian Stratigraphy. **1989**, 43, 143-150	6
1913	Malignancy may contribute to rapid evolution. **1989**, 28, 35-8	5
1912	Solar system and galactic influences on the stability of the earth. **1989**, 1, 3-33	
1911	Morphology, sediments and structure of the Amirante Trench, Western Indian Ocean: implications for trench origin. **1989**, 6, 232-242	6
1910	A review of the origins of metal-rich Pennsylvanian black shales, central U.S.A., with an inferred role for basinal brines. **1989**, 4, 347-367	66
1909	Phanerozoic marine faunas and the stability of the earth system. **1989**, 1, 137-155	
1908	What, if anything, are mass extinctions?. **1989**, 325, 253-261	3
1907	Plants at the Cretaceous-Tertiary boundary. **1989**, 325, 291-305	21
1906	The Cretaceous-Tertiary boundary and the last of the dinosaurs. **1989**, 325, 387-400	4
1905	The case for extraterrestrial causes of extinction. **1989**, 325, 421-435	34
1904	Pb isotopic tracers of the Cretaceous-Tertiary extinction event. **1989**, 16, 1301-1304	4
1903	Iridium-bearing sublimates at a hot-spot volcano (Piton De La Fournaise, Indian Ocean). **1989**, 16, 1391-1394	43
1902	Extended Cretaceous/Tertiary boundary extinctions and delayed population change in planktonic foraminifera from Brazos River, Texas. **1989**, 4, 287-332	98
1901	Snowbird II: Global catastrophes. **1989**, 70, 217	2
1900	Punctuated equilibrium in fact and theory. **1989**, 12, 117-136	49
1899	Adaptive radiation, survival and extinction of brachiopods in the northwest European upper cretaceous-lower paleocene chalk. **1989**, 74, 147-204	13
1898	Fabric of the cretaceous-tertiary marine macrofaunal transition at Braggs, Alabama. **1989**, 69, 279-301	17

1897	Solar system and galactic influences on the stability of the earth. **1989**, 75, 3-33	6
1896	Phanerozoic marine faunas and the stability of the earth system. **1989**, 75, 137-155	10
1895	Bolide impacts and their significance in fossil fuel geochemistry. **1989**, 14, 569-570	2
1894	Mineralogy and phase-chemistry of an Ir-enriched pre-K/T layer from the Lattengebirge, Bavarian Alps, and significance for the KTB problem. **1989**, 95, 271-290	28
1893	Magnetostratigraphy of the Cretaceous-Tertiary boundary at Agost (Spain). **1989**, 94, 385-397	46
1892	The Cretaceous-Tertiary boundary problem: An assessment from lead isotope systematics. **1989**, 75, 291-304	15
1891	A method for the quantification of bismuth and palladium in geological materials including Cretaceous-Tertiary boundary clays. **1989**, 75, 305-310	5
1890	Evolution and extinction in the marine realm: some constraints imposed by phytoplankton. **1989**, 325, 279-90	28
1889	Magmatism at rift zones: The generation of volcanic continental margins and flood basalts. **1989**, 94, 7685	2219
1888	Limits on the Age of the Deccan Traps of India from paleomagnetic and plate reconstruction data and their uncertainties. **1989**, 94, 17713	9
1887	Stable isotope, TOC and CaCO3 record across the cretaceous/tertiary boundary at El Kef, Tunisia. **1989**, 73, 243-265	111
1886	Time and place in Alpine orogenesis the Fermor Lecture. **1989**, 45, 421-443	11
1885	Problems of permo-triassic terrestrial vertebrate extinctions. **1989**, 2, 17-35	19
1884	Technology, aggression and the search for extraterrestrial intelligence. **1989**, 5, 29-45	1
1883	Catastrophic extinctions and the inevitability of the improbable. **1989**, 146, 749-754	11
1882	Mass Extinctions: Astronomical Influence or Earthly Causes?. **1989**, 64, 463-466	
1881	Chemostratigraphy across the Cretaceous-Tertiary Boundary and a Critical Assessment of the Iridium Anomaly. **1989**, 97, 585-605	44
1880	The Cretaceous-Tertiary Boundary of the Bug Creek Drainage: Hell Creek and Tullock Formations, Mccone and Garfield Counties, Montana. **1989**, 67-73	

1879	Latest Cretaceous/earliest Tertiary transition on Seymour Island, Antarctica. **1989**, 63, 731-738		71
1878	On impacts and extinction: biological solutions to biological problems. **1990**, 64, 151-154		4
1877	The Asteroidal Impact Rate upon the Terrestrial Planets: An Update. **1990**, 8, 303-307		3
1876	40Ar-39Ar ages of Dellen, Jänisjärvi, and Säksjärvi impact craters. **1990**, 25, 1-10		34
1875	Uranium at the Cretaceous-Tertiary boundary in Denmark. **1990**, 2, 79-86		1
1874	Principles of earthquake source mechanics B. V. Kostrov and Shamita Das, Cambridge University Press, Cambridge, 1989, 286pp, ISBN 0521303451, £30. **1990**, 102, 267-271		
1873	Ignition of global wildfires at the Cretaceous/Tertiary boundary. **1990**, 343, 251-4		158
1872	An accurate procedure for the determination of low levels of platinum group elements in standard materials by neutron activation analysis. **1990**, 142, 489-497		11
1871	A critical review of the case for, and against, extraterrestrial impact at the K/T boundary. **1990**, 11, 55-131		2
1870	Impact constraints on the environment for chemical evolution and the continuity of life. **1990**, 20, 181-95		28
1869	Monte Carlo simulations of the Oort comet cloud. **1990**, 88, 104-121		65
1868	Open systems living in a closed biosphere: a new paradox for the Gaia debate. **1990**, 23, 371-84		6
1867	Research in Climate Science Response to Paper by George C. Reid. **1990**, 49-54		
1866	The Appraisal of Theories: Kuhn Meets Bayes. **1990**, 1990, 325-332		20
1865	Astrogeological events in China Xu Dao-Yi et al., Geological Publishing House, Beijing, China. **1990**, 102, 268-269		2
1864	Analytical Biogeography. **1990**,		2
1863	Proximal cretaceous-tertiary boundary impact deposits in the Caribbean. *Science*, **1990**, 248, 843-7	33.3	116
1862	A Conceptual Framework for Biology Part II. **1990**, 30, 723-858		3

1861	Paleomagnetism and the nature of the geodynamo. *Science*, **1990**, 248, 345-50	33.3	48
1860	A multi-causal model of mass extinctions: Increase in trace metals in the oceans. **1990**, 45-55		7
1859	An astronomical explanation of anomalous concentrations of iridium element during catastrophic extinctions. **1990**, 99-103		
1858	Patterns of survival and recovery following the Cenomanian-Turonian (Late Cretaceous) mass extinction in the Western Interior Basin, United States. **1990**, 277-298		34
1857	Trophic differences, originations and extinctions during the Cenomanian and Maastrichtian stages of the Cretaceous. **1990**, 299-303		5
1856	Biogeochemical modeling at mass extinction boundaries: Atmospheric carbon dioxide and ocean alkalinity at the K/T boundary. **1990**, 333-345		11
1855	Palynological evidence of effects of the terminal Cretaceous event on terrestrial floras in western North America. **1990**, 351-364		9
1854	The Cretaceous-Tertiary boundary interval at south table mountain, near Golden, Colorado. **1990**, 365-392		8
1853	Aftermath of the Cretaceous-Tertiary extinction: Rate and nature of the early paleocene molluscan rebound. **1990**, 401-409		2
1852	Actualistic catastrophism and global change. **1990**, 3, 309-313		
1851	Importance of the geological record in understanding global change. **1990**, 3, 193-204		6
1850	The Late Early Eocene Montagnais Bolide: No Impact on Biotic Diversity. **1990**, 36, 164		8
1849	Iridium profile for 10 million years across the Cretaceous-Tertiary boundary at Gubbio (Italy). *Science*, **1990**, 250, 1700-2	33.3	50
1848	Theoretical and experimental considerations linking an environmental stress to expression of endogenous retroviruses in a mammalian tumour. **1990**, 32, 101-5		1
1847	Literature. **1990**, 381-444		
1846	Geologic and biostratigraphic framework of the non-marine Cretaceous-Tertiary boundary interval in western North America. **1990**, 65, 75-84		16
1845	The historian is a prophet in reverse**1990**, 64, 5-11		
1844	The biotic record of events in the marine realm at the end of the Cretaceous: calcareous, siliceous and organic-walled microfossils and macroinvertebrates. **1990**, 171, 347-357		9

1843	Shock-induced microdeformations in quartz and other mineralogical indications of an impact event at the Cretaceous-Tertiary boundary. **1990**, 171, 359-372	38
1842	Dynamic deformation of quartz and feldspar: clues to causes of some natural crises. **1990**, 171, 373-391	30
1841	On the determination of iridium in diverse geological samples employing HPGe-coincidence/NaI(Tl)-anticoincidence spectrometry. **1990**, 54, 889-894	8
1840	Fires at the K/T boundary: Carbon at the Sumbar, Turkmenia, site. **1990**, 54, 1133-1146	38
1839	Shocked minerals and the K/T controversy. **1990**, 71, 1792	34
1838	Timing and duration of Mesozoic-Tertiary flood-basalt volcanism. **1990**, 71, 1835	19
1837	Ivory coast microtektites and geomagnetic reversals. **1990**, 17, 163-166	19
1836	Stable isotope evidence for gradual environmental changes and species survivorship across the Cretaceous/Tertiary Boundary. **1990**, 5, 867-890	67
1835	Paleontology of Vertebrates. **1990**,	3
1834	Deccan volcanism at the Cretaceous-Tertiary boundary: past climatic crises as a key to the future?. **1990**, 3, 291-299	6
1833	40, 000 years of extinctions on the planet of doom**1990**, 2, 187-201	2
1832	Modeling Cretaceous-Tertiary boundary events with extant photosynthetic plankton: effects of impact-related acid rain. **1990**, 23, 379-383	4
1831	Paleoenvironmental significance of clay mineral associations at the Cretaceous-Tertiary passage. **1990**, 79, 205-219	35
1830	Importance of the geological record in understanding global change. **1990**, 89, 193-204	5
1829	Deccan volcanism at the Cretaceous-Tertiary boundary: past climatic crises as a key to the future?. **1990**, 89, 291-299	25
1828	Actualistic catastrophism and global change. **1990**, 89, 309-313	
1827	The origin of the White Beds below the Cretaceous-Tertiary boundary in the Gubbio section, Italy. **1990**, 98, 303-312	20
1826	The Cretaceous-Tertiary boundary at Gubbio revisited: vertical extent of the Ir anomaly. **1990**, 99, 206-219	43

1825	Precessional climate cyclicity in Late Cretaceous Early Tertiary marine sediments: a high resolution chronometer of Cretaceous-Tertiary boundary events. **1990**, 99, 263-275	88
1824	Uranium and thorium abundance measurements across the Cretaceous-Tertiary boundary in Colorado, U.S.A.. **1990**, 89, 201-207	
1823	A new selective chemical dissolution procedure for chemical speciation studies of anomalous iridium in geological samples. **1990**, 82, 51-56	4
1822	40,000 years of extinctions on the planet of doom. **1990**, 82, 187-201	46
1821	Biological selectivity of extinction. **1990**, 31-43	4
1820	An assessment of the meteoritic contribution to the Martian soil. **1990**, 95, 14497	112
1819	. *Cretaceous Research*, **1990**, 11, 391-393	1.8
1818	The next 40 years in space. **1990**, 22, 1-16	1
1817	Global climatic catastrophes: by M. I. Budyko, G. S. Golitsyn and Y. A. Izrael, 1988, 99 pp., Springer-Verlag, Berlin, DM. 38,00. *Cretaceous Research*, **1991**, 12, 342-344	1.8
1816	Climate, Earth Processes and Earth History. **1991**,	25
1815	Planar deformation features in shocked quartz; a transmission electron microscopy investigation. **1991**, 106, 103-115	80
1814	The stratigraphic distribution of Ni-rich spinels in Cretaceous-Tertiary boundary rocks at El Kef (Tunisia), Caravaca (Spain) and Hole 761C (Leg 122). **1991**, 107, 715-721	79
1813	Seawater Sr isotopes at the Cretaceous/Tertiary boundary. **1991**, 104, 166-180	59
1812	A review of the structure, petrology, and dynamic deformation characteristics of some enigmatic terrestrial structures. **1991**, 30, 1-49	15
1811	Comets: clues to the early history of the solar system. **1991**, 30, 125-174	6
1810	Tektites in Cretaceous-Tertiary boundary rocks on Haiti and their bearing on the Alvarez Impact Extinction Hypothesis. **1991**, 96, 20879	77
1809	Fractal aggregates in geophysics. **1991**, 29, 317	143
1808	Terrestrial impact: The record in the rocks*. **1991**, 26, 175-194	168

1807	Rapid eruption of the siberian traps flood basalts at the permo-triassic boundary. *Science*, **1991**, 253, 176-9	33.3	313
1806	40Ar/39Ar Age of Cretaceous-Tertiary Boundary Tektites from Haiti. *Science*, **1991**, 252, 1539-42	33.3	92
1805	Impacts, tsunamis, and the haitian cretaceous-tertiary boundary layer. *Science*, **1991**, 252, 1690-3	33.3	84
1804	Bioastronomy (Report of Iau Commission 51). **1991**, 21, 599-606		
1803	Probabilities of origination, persistence, and extinction of families of marine invertebrate life. **1991** , 17, 145-166		33
1802	Atmospheric impact processes. **1991**, 11, 87-93		8
1801	Global consequences of radiation impulse caused by comet impact. **1991**, 11, 95-97		4
1800	RNAA of trace iridium in Precambrian-Cambrian boundary samples by thiourea type chelate resin separation. **1991**, 151, 107-111		1
1799	Determination of some noble metals in iron meteorites by instrumental neutron activation analysis with a SLOWPOKE reactor. **1991**, 151, 185-190		
1798	Chemical species of iridium and other trace elements in the Cretaceous-Tertiary boundary clays and their implication. **1991**, 151, 201-211		5
1797	Cretaceous/Tertiary boundary extinction pattern and faunal turnover at Agost and Caravaca, S.E. Spain. **1991**, 17, 319-341		115
1796	Glass from the Cretaceous/Tertiary boundary in Haiti. **1991**, 349, 482-487		146
1795	Mexican site for K/T impact crater?. **1991**, 351, 105-105		61
1794	Palaeobotanical evidence for a June 'impact winter' at the Cretaceous/Tertiary boundary. **1991**, 352, 420-423		52
1793	Nanometre-size diamonds in the Cretaceous/Tertiary boundary clay of Alberta. **1991**, 352, 708-709		61
1792	Abrupt deep-sea warming, palaeoceanographic changes and benthic extinctions at the end of the Palaeocene. **1991**, 353, 225-229		963
1791	Carbon isotopes, time boundaries and evolution. **1991**, 3, 251-256		13
1790	Oxygen and carbon isotope stratigraphy of the Palaeogene and Cretaceous limestones in the Bottaccione Gorge and the Contessa Highway sections, Umbria, Italy. **1991**, 3, 414-422		73

1789	Stepwise mass extinctions: the case for the Late Cenomanian event. **1991**, 3, 142-147	25
1788	Kuiper prize lecture: Present and past climates of the terrestrial planets. **1991**, 91, 173-198	18
1787	Evidence for shock wave effect of meteoritic impact. **1991**, 1, 35-41	12
1786	Comet impacts and chemical evolution on the bombarded Earth. **1991**, 21, 317-338	25
1785	The global Frasnian-Famennian »Kellwasser Event«. **1991**, 80, 49-72	184
1784	The localization of energy and plastic deformation in crystalline solids during shock or impact. **1991**, 70, 4248-4254	15
1783	Sudden extinction of the dinosaurs: latest Cretaceous, upper Great Plains, USA. *Science*, **1991**, 254, 835-933.3	82
1782	Geochemical anomalies near the Ordovician-Silurian boundary, Northern Yukon Territory, Canada 1 Geological Survey of Canada Contribution No. 52190. **1992**, 6, 1-23	27
1781	Caribbean biogeography: molecular evidence for dispersal in West Indian terrestrial vertebrates. **1992**, 89, 1909-13	121
1780	An iridium anomaly in the Ludlow Bone Bed from the Upper Silurian, England. **1992**, 129, 359-362	4
1779	Is Gaia endothermic?. **1992**, 129, 129-141	5
1778	Ramgarh crater, Rajasthan, India: Study of Multispectral images obtained by Indian remote sensing satellite (IRS-IA). **1992**, 7, 75-80	3
1777	Atmospheric effects on ejecta emplacement. **1992**, 97, 11623	111
1776	Late Cretaceous palaeoenvironments and biotas: an Antarctic perspective. **1992**, 4, 371-382	15
1775	The Barringer Medal Address. **1992**, 27, 21-27	13
1774	Abstracts. **1992**, 27, 197-313	5
1773	QUASI-STATIONARY MODEL OF THE GEOCHEMICAL CYCLE AND THE EVOLUTION OF THE BIOSPHERE ACROSS THE PRECAMBRIAN-PHANEROZOIC BOUNDARY. **1992**, 34, 565-581	1
1772	Theories of Uneven Development and Social Change. **1992**, 5, 75-105	6

1771	Shocked quartz at the triassic-jurassic boundary in Italy. *Science*, **1992**, 255, 443-6	33.3	75
1770	Origins for the near-Earth asteroids. *Science*, **1992**, 257, 779-82	33.3	45
1769	Oxygen isotope constraints on the origin of impact glasses from the cretaceous-tertiary boundary. *Science*, **1992**, 257, 1104-7	33.3	40
1768	The age of parana flood volcanism, rifting of gondwanaland, and the jurassic-cretaceous boundary. *Science*, **1992**, 258, 975-9	33.3	368
1767	A new Cretaceous-Tertiary boundary locality in the western powder River basin, Wyoming: biological and geological implications. *Cretaceous Research*, **1992**, 13, 3-30	1.8	27
1766	The K-T boundary and contiguous strata in western Canada: interactions between paleoenvironments and palynological assemblages. *Cretaceous Research*, **1992**, 13, 31-79	1.8	61
1765	Leaf-fossil evidence for extensive floral extinction at the Cretaceous-Tertiary boundary, North Dakota, USA. *Cretaceous Research*, **1992**, 13, 91-117	1.8	57
1764	The impact origin of genetic material. **1992**, 38, 92-4		
1763	Cretaceous/Tertiary and Permian/Triassic boundary events compared. **1992**, 56, 3297-3309		45
1762	Geochemistry of impact glasses from the K/T boundary in Haiti: Relation to smectites and a new type of glass. **1992**, 56, 2113-2129		78
1761	Iridium content of basaltic tuffs and enclosing black shales of the balder formation, North Sea. **1992**, 56, 2955-2961		8
1760	The Cretaceous-Tertiary extinction: A lethal mechanism involving anhydrite target rocks. **1992**, 56, 3603-3606		72
1759	INTERRELATING NATURE, HUMANITY, AND THE WORK OF GOD: SOME ISSUES FOR FUTURE REFLECTION. **1992**, 27, 403-419		1
1758	Positive europium anomaly at the Permo-Triassic Boundary, Spiti, India. **1992**, 19, 1531-1534		20
1757	Laboratory simulation of explosive volcanic loading and implications for the cause of the K/T boundary. **1992**, 19, 1391-1394		11
1756	The geophysical signature of terrestrial impact craters. **1992**, 30, 161		258
1755	Oceanic anoxia at the cretaceous/tertiary boundary supported by the sulfur isotopic record. **1992**, 99, 151-162		41
1754	Stable isotope and foraminiferal changes across the Cretaceous□Tertiary boundary at Stevns Klint, Denmark: Arguments for long-term oceanic instability before and after bolide-impact event. **1992**, 96, 233-260		90

1753	The terminal Triassic catastrophic extinction event in perspective: a review of carboniferous through Early Jurassic terrestrial vertebrate extinction patterns. **1992**, 94, 1-29	23
1752	The terrestrial impact cratering record. **1992**, 216, 1-30	102
1751	On the significance of crater ages: New ages for Dellen (Sweden) and Araguainha (Brazil). **1992**, 216, 205-218	30
1750	Formation of spinels in cosmic objects during atmospheric entry: a clue to the Cretaceous-Tertiary boundary event. **1992**, 108, 181-190	96
1749	Mineralogy and petrology of the Haiti Cretaceous/Tertiary section. **1992**, 109, 205-224	21
1748	The Cretaceous-Tertiary boundary at Beloc, Haiti: No evidence for an impact in the Caribbean area. **1992**, 109, 229-241	40
1747	The impact of the Cretaceous/Tertiary bolide on evaporite terrane and generation of major sulfuric acid aerosol. **1992**, 109, 543-559	79
1746	Misconceptions concerning the Cretaceous/Tertiary boundary at the Brazos River, Falls County, Texas. **1992**, 109, 593-600	16
1745	The geochemistry and mineralogy of the Cretaceous-Tertiary boundary at Agost (southeast Spain). **1992**, 95, 265-281	29
1744	Gold and platinum in shales with evidence against extraterrestrial sources of metals. **1992**, 99, 101-114	45
1743	Large-body impact and extinction in the Phanerozoic. **1992**, 18, 80-8	81
1742	JET EJECTA MASS UPON OBLIQUE IMPACT. **1992**, 1011-1014	3
1741	Raising questions: Philosophical significance of controversy in science. **1992**, 1, 163-179	10
1740	Episodes of terrestrial geologic activity during the past 260 million years: A quantitative approach. **1992**, 54, 143-159	30
1739	The fundamental role of giant comets in earth history. **1992**, 54, 179-193	6
1738	Evidence of earth catastrophe by anomalous shocked quartz at the K/T boundary. **1992**, 54, 249-253	1
1737	Post-depositional mobility of platinum, iridium and rhenium in marine sediments. **1992**, 358, 402-404	135
1736	Deflection and fragmentation of near-Earth asteroids. **1992**, 360, 429-433	127

1735	CO2 transfer between the upper mantle and the atmosphere: temporary storage in the lower continental crust. **1992**, 4, 87-98	50
1734	High-resolution profile of stable isotopes and iridium across a K/T boundary section from Koshak Hill, Mangyshlak, Kazakhstan. **1992**, 4, 585-590	10
1733	The relevance of iridium and microscopic dynamic deformation features toward understanding the Cretaceous/Tertiary transition. **1992**, 4, 394-404	3
1732	An investigation by transmission electron microscopy of planar deformation features in naturally shocked quartz. **1992**, 4, 405-412	7
1731	The rise of blood sacrifice and priest-kingship in Mesopotamia: A □osmic decree□ **1992**, 22, 109-134	2
1730	The cometary contribution to prebiotic chemistry. **1992**, 12, 33-41	14
1729	Nannofossil diversity and equitability and fine-fraction □13C across the Cretaceous/Tertiary boundary at Walvis Ridge Leg 74, South Atlantic. **1992**, 20, 77-88	22
1728	Calcareous nannofossil and dinoflagellate stratigraphy across the Cretaceous/Tertiary boundary at Hor Hahar, Israel. **1992**, 18, 199-228	85
1727	A low extinction rate of intermediate-water benthic foraminifera at the Cretaceous/Tertiary boundary. **1992**, 18, 229-259	48
1726	Asteroids: Distributions, morphologies, origins and evolution. **1992**, 13, 165-208	2
1725	Ontogeny and phylogeny--revisited and reunited. **1992**, 14, 275-9	62
1724	Iridium isotope ratio measurements by negative thermal ionization mass spectrometry and atomic weight of iridium. **1993**, 123, 139-147	29
1723	Impact craters: Lessons from and for the Earth. **1993**, 36, 203-230	6
1722	On the thermal decomposition of MgRh2O4 spinel and the solid solution Mg(Rh, Al)2O4. **1993**, 220, 7-16	10
1721	Surficial geology of the Chicxulub impact crater, Yucatan, Mexico. **1993**, 63, 93-104	40
1720	Extraterrestrial microspherules and iron needles in the interstellar medium. **1993**, 209, 143-147	
1719	Isotopic comparison of K/T boundary impact glass with melt rock from the Chicxulub and Manson impact structures. **1993**, 364, 325-327	78
1718	Zircon can take the heat. **1993**, 366, 718-718	4

1717	The Maastrichtian-Danian radiation of triserial and biserial planktic foraminifera: Testing phylogenetic and adaptational hypotheses in the (micro)fossil record. **1993**, 21, 47-100	36
1716	Latest Cretaceous to Late Paleocene radiolarian biostratigraphy: A new zonation from the New Zealand region. **1993**, 21, 295-327	43
1715	Molecular insights into the relationships and biogeography of West Indian anoline lizards. **1993**, 21, 97-114	44
1714	Some radiochemical separations employed at the Institute of Nuclear and Energy Research-Brazilian Nuclear Energy Commission. **1993**, 168, 29-39	1
1713	Simultaneous determination of Ir and Se in K-T boundary clays and volcanic sublimates. **1993**, 168, 125-131	10
1712	Recovery of materials impacted at high velocity. **1993**, 14, 531-539	3
1711	ACRITARCHSA REVIEW. **1993**, 68, 475-537	88
1710	Time calibration of Triassic/Jurassic microfloral turnover, eastern North America. **1993**, 222, 361-369	82
1709	Thermal excursions in the ocean at the Cretaceous□Tertiary boundary (northern Morocco): □18O record of phosphatic fish debris. **1993**, 105, 235-243	139
1708	Preface. **1993**, 104, 1	1
1707	Upper Devonian iridium anomalies, conodont zonation and the Frasnian-Famennian boundary in the Canning Basin, Western Australia. **1993**, 104, 105-113	21
1706	Event-stratigraphic markers within the Kellwasser crisis near the Frasnian/Famennian boundary (upper Devonian) in Germany. **1993**, 104, 115-125	72
1705	Middle Palaeozoic extinction events: Faunal and isotopic data. **1993**, 104, 139-152	82
1704	Geochemistry of some K/T sections in India. **1993**, 104, 199-211	21
1703	Cretaceous/Tertiary boundary sections on the coast of the Black Sea near Bjala (Bulgaria). **1993**, 104, 219-228	12
1702	The cretaceous/paleogene boundary and planktonic foraminifera in the flyschgosau (Eastern Alps, Austria). **1993**, 104, 239-252	17
1701	Iridium and other platinum-group elements as geochemical markers in sedimentary environments. **1993**, 104, 253-270	82
1700	Cometary impacts into ocean: their recognition and the threshold constraint for biological extinctions. **1993**, 104, 271-286	62

1699	A possible K-T boundary bolide impact site offshore near Bombay and triggering of rapid Deccan volcanism. **1993**, 76, 189-197		29
1698	High-velocity anomaly under the Deccan Volcanic Province. **1993**, 77, 285-296		26
1697	Deccan volcanic contribution of Ir and other trace elements near the K/T boundary in India. **1993**, 103, 129-139		18
1696	Review and impacts of climate change uncertainties. **1993**, 25, 850-863		4
1695	Impact-induced phase transformations at 50–60 GPa in continental crust: an EPMA and ATEM study. **1993**, 119, 207-223		17
1694	Fingerprinting the K/T impact site and determining the time of impact by UPb dating of single shocked zircons from distal ejecta. **1993**, 119, 425-429		91
1693	Asteroids and early precambrian crustal evolution. **1993**, 35, 285-319		23
1692	Extraterrestrial geomorphology: science and philosophy of Earthlike planetary landscapes. **1993**, 7, 9-35		17
1691	Chicxulub multiring impact basin: size and other characteristics derived from gravity analysis. *Science*, **1993**, 261, 1564-7	33.3	154
1690	The Manson Impact Structure: 40Ar/39Ar Age and Its Distal Impact Ejecta in the Pierre Shale in Southeastern South Dakota. *Science*, **1993**, 262, 729-32	33.3	53
1689	The Role of Anomalous Data in Knowledge Acquisition: A Theoretical Framework and Implications for Science Instruction. **1993**, 63, 1-49		890
1688	Impact cratering at geologic stage boundaries. **1993**, 20, 887-890		17
1687	The microstructural response of quartz and feldspar under shock loading at variable temperatures. **1993**, 98, 22171-22197		38
1686	Planetary cratering mechanics. **1993**, 98, 17011		90
1685	Physicochemical conditions of sedimentation of the Fish Clay from Stevns Klint, Denmark, and its detrital nature: Vanadium and other supportive evidence. **1993**, 57, 1433-1446		20
1684	Iridium anomaly associated with the Australasian tektite-producing impact: Masses of the impactor and of the Australasian tektites. **1993**, 57, 4851-4859		27
1683	Ru/Ir ratios at the Cretaceous-Tertiary boundary: Implications for PGE source and fractionation within the ejecta cloud. **1993**, 57, 3149-3158		44
1682	Interception of comets and asteroids on collision course with Earth. **1993**, 30, 222-228		21

1681	Cretaceous foraminiferal events. **1993**, 70, 227-240	5
1680	Evolution. **1993**,	3
1679	Chapter 3 Aerosol-Climate Interactions. **1993**, 54, 75-95	10
1678	A faster-paced world?: contrasts in biovolume and life-process rates in cyclostome (Class Stenolaemata) and cheilostome (Class Gymnolaemata) bryozoans. **1993**, 19, 335-351	38
1677	Competition, clade replacement, and a history of cyclostome and cheilostome bryozoan diversity. **1993**, 19, 352-371	70
1676	THE METEORITICAL SOCIETY: 1933 to 1993. **1993**, 28, 261-314	20
1675	Abstracts. **1993**, 28, 315-470	2
1674	Extinction from a paleontological perspective. **1993**, 1, 207-16	9
1673	Magnetic analysis of K/T boundary layer clay from Stevns Klint, Denmark. **1993**, 28, 595-599	3
1672	Diversity changes in lycopsid and aquatic fern megaspores through geologic time. **1993**, 19, 28-42	28
1671	The first 2 million years after the Cretaceous-Tertiary boundary in east Texas: rate and paleoecology of the molluscan recovery. **1993**, 19, 251-265	60
1670	Origin of the Mg-Smectite at the Cretaceous/Tertiary (K/T) Boundary at Stevns Klint, Denmark. **1993**, 41, 442-452	36
1669	Origin and Clay-Mineral Genesis of the Cretaceous/Tertiary Boundary Unit, Western Interior of North America. **1993**, 41, 7-25	36
1668	The Extinction of Dinosaurs. **1994**, 7, 411-424	
1667	Chapter 2. HIGH-PRESSURE BEHAVIOR OF SILICA. **1994**, 41-82	43
1666	What can the Fossil Record Tell Us About the Terminal Cretaceous Extinction Event and the Disappearance of the Dinosaurs?. **1994**, 7, 487-501	
1665	Comparative biogeographic analysis of planktic foraminiferal survivorship across the Cretaceous/Tertiary (K/T) boundary. **1994**, 20, 143-177	50
1664	Chicxulub Structure: A Volcanic Sequence of Late Cretaceous Age. **1994**, 7, 425-436	

1663	Common Patterns of Mass Extinction, Survival, and Recovery in Marine Environments: What Do They Tell Us About the Future?. **1994**, 7, 437-466	1
1662	The Search for an Extinction Event. **1994**, 7, 467-486	
1661	Nuclear explosive propelled interceptor for deflecting objects on collision course with Earth. **1994**, 31, 707-709	3
1660	The paleocene epoch-stratigraphy, global change and events. **1994**, 116, 39-41	6
1659	Modeling the short-term evolution of orbital debris clouds in circular orbits. **1994**, 31, 709-711	3
1658	Biodiversity in Geological Time. **1994**, 34, 23-32	19
1657	Magnetostratigraphy of the upper paleocene and lowermost eocene of SE England. **1994**, 116, 41-42	6
1656	A search for shocked quartz grains and impact ejecta in early Silurian sediments on Gotland, Sweden. **1994**, 131, 361-367	15
1655	Free particle modelling of hypervelocity asteroid collisions with the Earth. **1994**, 42, 1123-1137	11
1654	Software support for students engaging in scientific activity and scientific controversy. **1994**, 78, 577-599	17
1653	Uncontrolled growth of human populations, geological background, and future prospects. **1994**, 15, 303-327	
1652	The history of Devonian-Carboniferous reef communities: Extinctions, effects, recovery. **1994**, 30, 177-191	41
1651	Impacts on the Earth by asteroids and comets: assessing the hazard. **1994**, 367, 33-40	309
1650	The Permo□riassic extinction. **1994**, 367, 231-236	532
1649	The Cretaceous□ertiary boundary in southern low-latitude regions: preliminary study in Pernambuco, northeastern Brazil. **1994**, 6, 366-375	34
1648	THE IMPACT-FLOOD CONNECTION: DOES IT EXIST?*. **1994**, 6, 644-650	8
1647	The youngest big impact on Earth deduced from geological and historical evidence. **1994**, 6, 209-217	11
1646	Other Dating Methods. **1994**, 270-368	

1645	Search for extractable fullerenes in clays from the Cretaceous/Tertiary boundary of the Woodside Creek and Flaxbourne River sites, New Zealand. **1994**, 58, 3531-3534	35
1644	A short interval of Jurassic continental flood basalt volcanism in Antarctica as demonstrated by 40Ar39Ar geochronology. **1994**, 121, 19-41	114
1643	Shock-induced devolatilization of calcium sulfate and implications for K-T extinctions. **1994**, 128, 615-628	32
1642	Provenance of mineral phases in the Cretaceous-Tertiary boundary sediments exposed on the southern peninsula of Haiti. **1994**, 128, 629-641	14
1641	Impact winter and the Cretaceous/Tertiary extinctions: results of a Chicxulub asteroid impact model. **1994**, 128, 719-25	121
1640	Volcanism around K/T boundary time its r e in an impact scenario for the K/T extinction events. **1994**, 36, 1-26	33
1639	Palaeocene oceans and climate: An isotopic perspective. **1994**, 37, 225-252	43
1638	Chemical profiles in K/T boundary section of Meghalaya, India: Cometary, asteroidal or volcanic. **1994**, 113, 45-60	25
1637	Development of a largely anoxic stratified ocean and its temporary massive mixing at the Permian/Triassic boundary supported by the sulfur isotopic record. **1994**, 111, 367-379	131
1636	Planktonic and benthic foraminiferal extinction events during the last 100 m.y.. **1994**, 111, 45-71	69
1635	Palynology of the Cretaceous-Tertiary boundary in the Scollard Formation of Alberta, Canada, and global KTB events. **1994**, 83, 137-158	17
1634	Geochemical anomalies at the Cenomanian-Turonian boundary, northwest New Mexico. **1994**, 22, 487-500	5
1633	Global climatic effects of atmospheric dust from an asteroid or comet impact on Earth. **1994**, 9, 263-273	60
1632	Resonance Ionization Spectroscopy. **1994**, 47, 38-45	9
1631	The Cretaceous-Tertiary fireball layer, ejecta layer and coal seam: Platinum-group element content and mineralogy of size fractions. **1994**, 29, 223-235	9
1630	The role of extinction in evolution. **1994**, 91, 6758-63	149
1629	Catastrophic versus noncatastrophic extinction of the dinosaurs: testing, falsifiability, and the burden of proof. **1994**, 68, 183-190	29
1628	Catastrophe: impact of comets and asteroids. **1995**, 95-147	2

1627	Could a nearby supernova explosion have caused a mass extinction?. **1995**, 92, 235-8	98
1626	Evolution as a self-organized critical phenomenon. **1995**, 92, 5209-13	189
1625	Platinum-group Elements and Silver in the Cretaceous-Tertiary Boundary Samples from Stevns Klint, Denmark.. **1995**, 71, 279-282	
1624	When the sky fell on our heads: Identification and interpretation of impact products in the sedimentary record. **1995**, 33, 95	1
1623	Consumer power as the major evolutionary force. **1995**, 173, 137-45	31
1622	Whither stratigraphy?. **1995**, 100, 5-20	54
1621	Impact cratering - a review, with special reference to the economic importance of impact structures and the Southern African impact crater record. **1995**, 70, 21-45	8
1620	Extinction of dinosaurs: a possible novel cause. **1995**, 15, 139-46	2
1619	Elemental and stable isotope variations in the Cretaceous□Tertiary boundary sediments from the So□ Valley, NW Slovenia. **1995**, 7, 630-635	2
1618	Around and around we go. **1995**, 376, 386-387	3
1617	One hundred million years of competitive interactions between bryozoan clades: asymmetrical but not escalating. **1995**, 56, 465-481	47
1616	Axial focusing of energy from a hypervelocity impact on earth. **1995**, 17, 99-108	5
1615	Experimental hypervelocity impact effects on simulated planetesimal materials. **1995**, 17, 837-848	21
1614	Determination of alpha-dialkylamino acids and their enantiomers in geological samples by high-performance liquid chromatography after derivatization with a chiral adduct of o-phthaldialdehyde. **1995**, 690, 55-63	99
1613	Determination of C60 and C70 fullerenes in geologic materials by high-performance liquid chromatography. **1995**, 689, 157-163	34
1612	Comparative mineralogical and geochemical clay sedimentation in the Betic Cordilleras and Basque-Cantabrian Basin areas at the Cretaceous-Tertiary boundary. **1995**, 94, 209-227	28
1611	Subsurface momentum coupling analysis for near-earth-object orbital management. **1995**, 35, 27-33	7
1610	Neo interaction with nuclear radiation. **1995**, 36, 337-346	14

1609	The search for life in the Universe: A humanistic perspective. **1995**, 39, 553-571	
1608	Molecular activation analysis for iridium. **1995**, 192, 101-108	5
1607	Tellurium interference with ultratrace platinum analysis during nickel sulphide fire-assay and neutron activation. **1995**, 198, 169-178	2
1606	Direct solid sampling of fire assay beads by spark ablation inductively coupled plasma mass spectrometry. **1995**, 50, 549-564	7
1605	The RNA World: Life before DNA and Protein. **1995**, 139-151	6
1604	Ruthenium concentrations in geological boundary deposits and their correlation with Iridium by RIMS. **1995**,	
1603	Life and Mind, Past and Future: Schr□dinger's Vision Fifty Years Later. **1995**, 38, 433-458	2
1602	□What is life?□as a problem in history. **1995**, 25-40	10
1601	Geochemical analysis through the "transitional zone" of conodont faunal turnover in the Ordovician □Silurian boundary interval, Anticosti Island, Quebec. **1995**, 32, 359-367	2
1600	Orbital forcing timescales: an introduction. **1995**, 85, 1-18	54
1599	Self-organized criticality in coevolving interacting systems. **1995**, 52, 5700-5703	14
1598	Migrating across disciplinary boundaries: The case of the periodicity paper of David Raup and John Sepkoski. **1995**, 9, 151-164	1
1597	Magnetic spherules from Recent fluvial sediments in Alberta, Canada: characteristics and possible origins. **1995**, 32, 351-358	4
1596	Biogeography of cretaceous/tertiary (k/t) planktic foraminifera. **1995**, 10, 49-101	11
1595	C. **1995**, 497-886	
1594	Implications of the infra- and inter-trappean biota from the Deccan, India, for the role of volcanism in Cretaceous-Tertiary boundary extinctions. **1995**, 152, 289-296	33
1593	Concentration of carbon dioxide in the Late Cretaceous atmosphere. **1995**, 152, 1-3	68
1592	Plant and mammal diversity in the Paleocene to early Eocene of the Bighorn Basin. **1995**, 115, 117-155	107

1591	Time calibration of Triassic/Jurassic microfloral turnover, eastern North America Reply. **1995**, 245, 96-99		5
1590	Quantitative determination of the platinum-group elements and gold using NiS fire assay with laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS). **1995**, 124, 37-46		47
1589	Role of major terrestrial cratering events in dispersing life in the solar system. **1995**, 130, 69-73		7
1588	TEM study of shock metamorphism in quartz from the Sedan nuclear test site. **1995**, 129, 163-170		13
1587	The K/T boundary at Beloc (Haiti): Compared stratigraphic distributions of the boundary markers. **1995**, 131, 255-268		24
1586	Fractionation of ruthenium from iridium at the Cretaceous-Tertiary boundary. **1995**, 134, 141-153		31
1585	Paleomagnetism and magnetostratigraphy of the traps from Western Taimyr (northern Siberia) and the Permo-Triassic crisis. **1995**, 136, 461-473		30
1584	Impact did not trigger Deccan volcanism: Evidence from Anjar K/T Boundary intertrappean sediments. **1995**, 22, 433-436		60
1583	Wave Phenomena During Droplet Impact. **1995**, 171-190		7
1582	Mass extinction: evolution and the effects of external influences on unfit species. **1995**, 260, 31-37		20
1581	Emplacement of cretaceous-tertiary boundary shocked quartz from chicxulub crater. *Science*, **1995**, 269, 930-5	33.3	109
1580	Hypercanes: A possible link in global extinction scenarios. **1995**, 100, 13755		23
1579	Mass extinction, punctuated equilibrium and the fossil plant record. **1995**, 10, 308-9		9
1578	Conserving Europe's bees: why all the buzz?. **1995**, 10, 309-10		19
1577	REFERENCES. **1995**, 469-541		
1576	Global Events in the Devonian and Carboniferous. **1996**, 225-250		126
1575	Self-organized criticality, evolution and the fossil extinction record. **1996**, 263, 1605-1610		82
1574	Abstracts. **1996**, 31, A5-A160		3

1573	Shock metamorphism of quartz in nature and experiment: II. Significance in geoscience*. **1996**, 31, 6-35		275
1572	Experimental constraints on shock-induced microstructures in naturally deformed silicates. **1996**, 256, 165-217		96
1571	Search for fullerenes C60and C70in Cretaceous–Tertiary boundary sediments from Turkmenistan, Kazakhstan, Georgia, Austria, and Denmark. *Cretaceous Research*, **1996**, 17, 367-380	1.8	32
1570	UNAM Scientific Drilling Program of Chicxulub Impact Structure-Evidence for a 300 kilometer crater diameter. **1996**, 23, 1565-1568		65
1569	An analytical model of the atmospheric entry of large meteors and its application to the Tunguska Event. **1996**, 101, 23207-23212		17
1568	Chemical characteristics of the Cretaceous-Tertiary boundary layer at Gubbio, Italy. **1996**, 60, 5133-5144		30
1567	Testing patterns and causes of faunal stability in the fossil record, with an example from the Pliocene Lusso Beds of Zaire. **1996**, 127, 313-337		11
1566	Ernst Florens Friedrich Chladni (1756–1827) and the origins of modern meteorite research. **1996**, 31, 545-588		35
1565	Simultaneous Determination of Ruthenium, Palladium, Iridium, and Platinum at Ultratrace Levels by Isotope Dilution Inductively Coupled Plasma Mass Spectrometry in Geological Samples. **1996**, 68, 1444-1450		60
1564	Iridium Metal in Chicxulub Impact Melt: Forensic Chemistry on the K-T Smoking Gun. *Science*, **1996**, 271, 1573-1576	33.3	24
1563	Iridium in Natural Waters. *Science*, **1996**, 273, 1524-1528	33.3	54
1562	Sudden and Gradual Molluscan Extinctions in the Latest Cretaceous of Western European Tethys. *Science*, **1996**, 274, 1360-3	33.3	111
1561	The Space and Missile Tracking System contribution to Planetary Defense: detection of asteroids and comets with Earth-crossing orbits.		1
1560	A New Discovery of the Cretaceous/Tertiary Boundary from the Tethyan Belt, Hekimhan Basin, Turkey: Mineralogical and Geochemical Evidence. **1996**, 38, 759-767		5
1559	Phytogeographic History of Taxodiaceae and Importance of Preserving Mixed Broad-leaved Deciduous–Evergreen Forest. **1996**, 6, 413-420		3
1558	The influence of climate change on the distribution and evolution of organisms. **1996**, 377-408		20
1557	Trophic group and the end-Cretaceous extinction: did deposit feeders have it made in the shade?. **1996**, 22, 104-112		27
1556	K/T redux. **1996**, 22, 311-317		12

1555	Book and Multimedia Reviews. **1996**, 31, 538-539	2
1554	Bibliography. **1996**, 64, 277-331	
1553	Tests and confidence intervals for a common upper endpoint in fossil taxa. **1996**, 22, 406-410	37
1552	Stress. **1996**,	1
1551	Indian Intraplate and Continental Margin Rifting, Lithospheric Extension, and Mantle Upwelling in Deccan Flood Basalt Volcanism near the K/T Boundary: Evidence from Mafic Dike Swarms. **1996**, 104, 379-398	84
1550	Isotopic Homogenization of Iridium for High Sensitivity Determination by Isotope Dilution Inductively Coupled Plasma Mass Spectrometry.. **1996**, 12, 7-12	4
1549	Vertical Variation of Rhenium, Cadmium, Silver and Platinum-group Elements within a Transitional Bed of Danish Cretaceous-Tertiary Boundary Layer.. **1996**, 72, 163-167	3
1548	Search for extraterrestrial amino acids in sediments at the Cretaceous/Tertiary boundary in Kawaruppu, Hokkaido, Japan.. **1996**, 30, 89-98	4
1547	A theory of evolution that includes prebiotic self-organization and episodic species formation. **1996**, 58, 65-97	3
1546	Multiple factors in the origin of the Cretaceous/Tertiary boundary: the role of environmental stress and Deccan Trap volcanism. **1996**, 85, 191-210	29
1545	Foraminifères planctoniques et séquences de dépôt dates par grade-datation dans la coupe-type de la limite crétacé-tertiaire du kef (Tunisie du NW). **1996**, 39, 125-136	2
1544	The Cretaceous/Tertiary boundary mass extinction in planktic foraminifera at Agost, (Spain). **1996**, 39, 225-243	64
1543	Sulfur, chlorine and fluorine degassing and atmospheric loading by the Roza eruption, Columbia River Basalt Group, Washington, USA. **1996**, 74, 49-73	116
1542	A model for evolution and extinction. **1996**, 180, 39-54	29
1541	The Introduced Hawaiian Avifauna Reconsidered: Evidence for Self-Organized Criticality?. **1996**, 182, 161-167	40
1540	A theory of evolution that includes prebiotic self-organization and episodic species formation. **1996**, 58, 65-97	2
1539	A possible tsunami deposit at the Cretaceous-Tertiary boundary in Pernambuco, northeastern Brazil. **1996**, 104, 189-201	57
1538	Giant comets, evolution and civilization. **1996**, 245, 43-60	11

1537	The Shiva Hypothesis: Impacts, mass extinctions, and the galaxy. **1996**, 72, 441-460	25
1536	A Jupiter fragmented comet: Cause of the K/T boundary record. **1996**, 72, 461-466	
1535	Reef coral diversity and global change. **1996**, 2, 559-568	22
1534	The orbital evolution of the asteroid Eros and implications for collision with the Earth. **1996**, 380, 689-691	39
1533	Propulsion options for missions to near-Earth objects. **1996**, 39, 517-528	6
1532	Extinction and survivorship of southern Tethyan Benthic foraminifera across the Cretaceous/Palaeogene boundary. **1996**, 102, 343-371	31
1531	Diversity and extinction patterns of permian brachiopoda of South China. **1996**, 12, 93-110	75
1530	Global Events and Event Stratigraphy in the Phanerozoic. **1996**,	37
1529	Expeditions into the Past: Paleoceanographic Studies in the South Atlantic. **1996**, 363-410	70
1528	A six metre expanded iridium anomaly in the lowermost Danian at Nye Kl?v, Denmark: The record of diffusion and reworking. **1996**, 118, 124-125	2
1527	Free vehicle modular bottom-lander technology for biogeochemical in situ studies. **1996**, 118, 125-126	1
1526	Patterns and Causes of Global Events. **1996**, 7-19	13
1525	Our cometary environment. **1997**, 60, 293-343	9
1524	Dynamical mechanisms for biological evolution. **1997**, 56, 841-847	7
1523	Interlune-Intermars Business Initiative: Returning to Deep Space. **1997**, 10, 60-67	8
1522	Iridium at the K/T boundary: the impact strikes back. **1997**, 38, 19-21	0
1521	The Net Primary Productivity and Water Use of Forests in the Geological Past. **1997**, 193-227	9
1520	Determination of iridium in natural waters by clean chemical extraction and negative thermal ionization mass spectrometry. **1997**, 69, 2444-50	19

1519 Isotopic composition of seawater past and present (Sr, Nd, Pb, Os, Ce). **1997**, 89-153

1518 The NEAR laser ranging investigation. **1997**, 102, 23761-23773 27

1517 Energy, volatile production, and climatic effects of the Chicxulub Cretaceous/Tertiary impact. **1997**, 102, 21645-64 136

1516 The Biology of Rarity. **1997**, 130

1515 Planktonic foraminiferal turnover across the Cretaceous-Tertiary boundary in the Vajont valley (Southern Alps, northern Italy). *Cretaceous Research*, **1997**, 18, 799-821 1.8 25

1514 Mass survival of birds across the Cretaceous-Tertiary boundary: molecular evidence. *Science*, **1997**, 275, 1109-13 33.3 414

1513 Re□Os isotope systematics as a diagnostic tool for the study of impact craters and distal ejecta. **1997**, 132, 25-46 58

1512 Collisions with ice/volatile objects: geological implications--a qualitative treatment. **1997**, 132, 47-63 11

1511 Deep-water agglutinated foraminiferal changes and stable isotope profiles across the Cretaceous□Paleogene boundary in the Rotwandgraben section, Eastern Alps (Austria). **1997**, 132, 287-307 27

1510 Extraterrestrial impact events: the record in the rocks and the stratigraphic column. **1997**, 132, 5-23 34

1509 The distribution and geochemistry of platinum-group elements as event markers in the Phanerozoic. **1997**, 132, 373-390 23

1508 Platinum group element enrichments and possible chondritic Ru:Ir across the Frasnian-Famennian boundary, western New York State. **1997**, 132, 399-410 14

1507 Geochemical events documented in inorganic carbon isotopes. **1997**, 132, 173-182 78

1506 Early Palaeocene palaeoclimatic inferences from fossil floras of the western interior, USA. **1997**, 136, 145-164 16

1505 Book and Multimedia Reviews. **1997**, 32, 327-328

1504 Environmental perturbations caused by the impacts of asteroids and comets. **1997**, 35, 41-78 295

1503 The Cretaceous-Tertiary biotic transition. **1997**, 154, 265-292 209

1502 Target Earth: evidence for large-scale impact events. **1997**, 822, 319-52 7

1501	The Cretaceous-Tertiary impact crater and the cosmic projectile that produced it. **1997**, 822, 353-80	2
1500	A unified theory of impact crises and mass extinctions: quantitative tests. **1997**, 822, 403-31	18
1499	NEO Mission Dynamics and Advanced Space Propulsion. **1997**, 822, 432-446	0
1498	Quench textures in altered spherules from the Cretaceous-Tertiary boundary layer at Agost and Caravaca, SE Spain. **1997**, 113, 137-147	30
1497	Size and morphology of the Chicxulub impact crater. **1997**, 390, 472-476	205
1496	Progress at the K-T boundary. **1997**, 387, 354-355	12
1495	Perspectives on the blind test. **1997**, 29, 101-103	17
1494	Crise de la biosphÈe et trou d'ozone: une hypothÈse nouvelle. **1997**, 30, 373-378	
1493	The K/T stratotype section of El Kef (Tunisia): Events and biotic turnovers. **1997**, 30, 235-245	9
1492	Analysis of dinosaur samples by nuclear microscopy. **1997**, 130, 308-314	2
1491	Predictive elements of large-body impacts in geologic history. **1997**, 86, 464-470	3
1490	Near Earth Asteroid Rendezvous: Mission Overview. **1997**, 82, 3-29	17
1489	Neutron activation analysis of Permian-Triassic boundary layer samples at the Selong Site in China. **1997**, 216, 183-190	2
1488	Quasi-regular staying of solar system in supernova remnants and natural earth history. **1997**, 49, 299-305	2
1487	A model of mass extinction. **1997**, 189, 235-52	69
1486	The marine Lockne impact structure, Jämtland, Sweden: a review. **1998**, 87, 253-267	28
1485	Evidence for a late Triassic multiple impact event on Earth. **1998**, 392, 171-173	84
1484	High Resolution Stepped-Combustion Mass Spectrometry: Application to the Detection and Analysis of Fine-Grained Diamond in Meteorites and Rocks. **1998**, 22, 71-83	5

1483	The Need for a Common Framework for Collection and Interpretation of Data in Platinum-Group Element Geochemistry. **1998**, 22, 85-91	30
1482	A meteorite from the Cretaceous/Tertiary boundary. **1998**, 396, 237-239	142
1481	Coherent quantum control of two-photon transitions by a femtosecond laser pulse. **1998**, 396, 239-242	584
1480	Cracking Los Angeles. **1998**, 394, 320-321	
1479	An Asian Grande Coupure. **1998**, 394, 321-321	17
1478	Earth cratering record and impact energy flux in the last 150 Ma. **1998**, 46, 271-281	45
1477	Coincidence gamma□gamma spectroscopy system for instrumental neutron activation analysis. **1998**, 414, 261-264	11
1476	Macrodynamics in a model of biological evolution. **1998**, 249, 342-347	2
1475	Evolution of the atmosphere. **1998**, 109, 1-13	13
1474	The forces driving molecular evolution. **1998**, 69, 83-150	5
1473	Book review. **1998**, 34, 245-247	
1472	Stability and instability in evolution. **1998**, 194, 541-9	2
1471	An empirical test of a taxonomy of responses to anomalous data in science. **1998**, 35, 623-654	226
1470	Cretaceous □Tertiary mass extinction. **1998**, 3, 8-17	
1469	Phylogenetics and character evolution in the grass family (Poaceae): Simultaneous analysis of morphological and Chloroplast DNA restriction site character sets. **1998**, 64, 1-85	128
1468	K/T boundary: Discussion of the platinum group elements as indicators of extraterrestrial materials. **1998**, 43, 1585-1593	1
1467	Uijongbu circular structure of Seoul granitic batholith, Korea: ring dike origin of a Jurassic volcanic cauldron. **1998**, 2, 161-164	2
1466	Sea-floor methane blow-out and global firestorm at the K□ boundary. **1998**, 18, 285-291	19

1465	Some metallic spherules in calcareous-marly sediments of the Romanoro Flysch, Sestola-Vidiciatico tectonic unit (Modena district, Northern Apennines, Italy). **1998**, 46, 329-340	3
1464	Discovery of iridium and other element anomalies near the 1908 Tunguska explosion site. **1998**, 46, 179-188	15
1463	Isotopic anomaly in peat nitrogen is a probable trace of acid rains caused by 1908 Tunguska bolide. **1998**, 46, 163-167	20
1462	Mantle plumes and their effect on the Earth's surface: a review and synthesis. **1998**, 27, 35-54	7
1461	Life Extinctions by Cosmic Ray Jets. **1998**, 80, 5813-5816	37
1460	Microimpact phenomena on Australasian microtektites: Implications for ejecta plume characteristics and lunar surface processes. **1998**, 33, 1271-1279	9
1459	The age of the Kara impact structure, Russia. **1998**, 33, 361-372	35
1458	Les cratères d'impacts: principaux effets de choc dans les roches et minéraux. **1998**, 327, 75-86	1
1457	The presence of heavy metals in air particulate at Vulcano island (Italy). **1998**, 212, 1-9	33
1456	α-Aminoisobutyric Acid and Isovaline in Tokyo Bay Sediments. **1998**, 62, 47-50	16
1455	Geochemical Markers of the Cretaceous-Tertiary Boundary Event at Brazos River, Texas, USA. **1998**, 62, 173-181	55
1454	Mobility and Immobility of Redox-Sensitive Elements in Deep-Sea Turbidites During Shallow Burial. **1998**, 62, 643-656	79
1453	Characterization of dicarboxylic acids in the Cretaceous/Tertiary boundary sediments at Kawaruppu, Hokkaido, Japan, and comparison with those of carbonaceous chondrites. **1998**, 62, 3695-3702	5
1452	Shock vaporization of anhydrite and global effects of the K/T bolide. **1998**, 156, 125-140	30
1451	Oceanic plateau formation: a cause of mass extinction and black shale deposition around the Cenomanian–Turonian boundary?. **1998**, 155, 619-626	208
1450	Biotic Replacements: Extinction or Clade Interaction?. **1998**, 48, 389-395	11
1449	Phylogeny of Deep-Sea Calcareous Trochospiral Benthic Foraminifera: Evolution and Diversification. **1998**, 44, 291	19
1448	Anatomy of an Anomaly: The Devonian Catastrophic Alamo Impact Breccia of Southern Nevada. **1998**, 40, 189-216	43

1447	Advanced Mineralogy. **1998**,		2
1446	Rates of speciation in the fossil record. **1998**, 353, 315-26		194
1445	Refugia from asteroid impacts on early Mars and the early Earth. **1998**, 103, 28529-28544		104
1444	Hydrocode simulation of the Chicxulub impact event and the production of climatically active gases. **1998**, 103, 28607-28625		150
1443	Isotopic evidence for the Cretaceous-Tertiary impactor and its type. *Science*, **1998**, 282, 927-9	33.3	154
1442	Evolution and Extinction Dynamics in Rugged Fitness Landscapes. **1998**, 12, 361-391		30
1441	On the impact vs GMC model of the K/T boundary event. **1998**, 39, 3.28-3.29		2
1440	Impacts and marine invertebrate extinctions. **1998**, 140, 217-246		14
1439	Meteorite impact and the mass extinction of species at the Cretaceous/Tertiary boundary. **1998**, 95, 11028-9		22
1438	Mapping Chicxulub crater structure with gravity and seismic reflection data. **1998**, 140, 155-176		37
1437	Galactic periodicity and the geological record. **1998**, 140, 19-29		7
1436	Identification of meteoritic components in impactites. **1998**, 140, 133-153		32
1435	Impact-related Ir anomaly in the Middle Ordovician Lockne impact structure, Jämtland, Sweden. **1998**, 120, 333-336		11
1434	Timing and causes of vertebrate extinction across the Cretaceous-Tertiary boundary. **1998**, 140, 247-257		4
1433	Encyclopedia of Geochemistry. **1999**, 1-2		0
1432	The Cenozoic Era: Lyellian (chrono)stratigraphy and nomenclatural reform at the millennium. **1998**, 143, 111-132		8
1431	Extraterrestrial impacts on earth: the evidence and the consequences. **1998**, 140, 105-131		18
1430	Mass extinctions in Phanerozoic time. **1998**, 140, 259-274		15

1429	Gauss theorem, mass deficiency at Chicxulub crater (Yucatan, Mexico), and the extinction of the dinosaurs. **1998**, 63, 1585-1594	11
1428	Inductivism, Naturalism, and Metascientific Theories. **1998**, 1-8	
1427	Clay mineral alteration associated with meteorite impact in the marine environment (Barents Sea). **1998**, 33, 51-64	26
1426	Impact Energy Flux on Earth in the Last 150 Ma as Inferred from the Cratering Records. **1998**, 184-198	
1425	Crises and extinction in the fossil record role for ultraviolet radiation?. **1999**, 25, 212-225	30
1424	Evolution dynamics in terracedNKlandscapes. **1999**, 48, 346-352	22
1423	Impacts from space: the implications for uniformitarian geology. **1999**, 150, 89-117	4
1422	Environmental Changes, Coextinction, and Patterns in the Fossil Record. **1999**, 82, 652-655	56
1421	Mass extinction in a dynamical system of evolution with variable dimension. **1999**, 60, 842-7	26
1420	Long-term survival of marine planktonic diatoms and dinoflagellates in stored sediment samples. **1999**, 21, 343-354	103
1419	Finding of probable Tunguska Cosmic Body material:. **1999**, 47, 905-916	25
1418	The evolutive role of symbiosis and the external environment: a mathematical model. **1999**, 267, 209-220	1
1417	Evolutive information contained in frequency spectra. **1999**, 272, 223-234	
1416	Positive Eu anomaly development during diagenesis of the K/T boundary ejecta layer in the Agost section (SE Spain): implications for trace-element remobilization. **1999**, 11, 290-296	54
1415	Craters On The Moon From Galileo To Wegener: A Short History Of The Impact Hypothesis, And Implications For The Study Of Terrestrial Impact Craters. **1999**, 85/86, 209-224	3
1414	Polar Winter: A Biological Model for Impact Events and Related Dark/Cold Climatic Changes. **1999**, 41, 151-173	8
1413	Systematics of the Eucestoda: advances toward a new phylogenetic paradigm, and observations on the early diversification of tapeworms and vertebrates. **1999**, 42, 1-12	42
1412	Flash heating on the early Earth. **1999**, 29, 123-38	10

1411	Palaeoclimatic cycles, global environmental changes and new glacial periods induced by the impact of extraterrestrial bodies. **1999**, 18, 298-304	1
1410	Mass extinctions and sea-level changes. **1999**, 48, 217-250	510
1409	High Temperatures in Returning Ejecta from the R Impact of Comet SL9. **1999**, 138, 164-172	2
1408	Impact Erosion of Planetary Atmospheres: Some Surprising Results. **1999**, 138, 224-240	57
1407	Critique: One way to improve theory and practice in human resource development. **1999**, 10, 101-104	2
1406	Molecular evidence for the early divergence of placental mammals. **1999**, 21, 1052-8; discussion 1059	58
1405	Cretaceous Meteor Showers, the Human Ecological Niche, and the Sixth Extinction. **1999**, 1-15	1
1404	Oceanic minerals: their origin, nature of their environment, and significance. **1999**, 96, 3380-7	53
1403	Climate catastrophes. **1999**, 20, 281-288	5
1402	Geochemical signals of the late Jurassic, marine Mjolnir impact. **1999**, 34, 393-406	30
1401	Biogeography on the eve of the twenty-first century: Towards an epistemology of biogeography. **1999**, 70, 89-103	2
1400	Quantifying the platinum group elements (PGEs) and gold in geological samples using cation exchange pretreatment and ultrasonic nebulization inductively coupled plasma-mass spectrometry (USN-ICP-MS). **1999**, 157, 219-234	81
1399	On the possible influence of extraterrestrial volatiles on Earth's climate and the origin of the oceans. **1999**, 146, 33-51	21
1398	The influence of Deccan volcanism on climate: insights from lacustrine intertrappean deposits, Anjar, western India. **1999**, 147, 141-149	42
1397	Devonian–Carboniferous Hangenberg mass extinction event, widespread organic-rich mudrock and anoxia: causes and consequences. **1999**, 148, 187-207	130
1396	Lower Danian bivalves, Stevns Klint, Denmark: continuity across the K/T boundary. **1999**, 154, 87-106	41
1395	Paleoenvironmental changes across the Cretaceous–Tertiary boundary at Koshak, Kazakhstan, based on planktic foraminifera and clay mineralogy. **1999**, 154, 247-273	31
1394	Electron spin resonance of 65-million-year-old glasses and rocks from the Cretaceous–Tertiary boundary. **1999**, 253, 1-22	20

1393	Electron spin resonance studies of defect centers induced in a high-level nuclear waste glass simulant by gamma-irradiation and ion-implantation. **1999**, 258, 34-47		25
1392	Reflections on the tropical deforestation crisis. **1999**, 91, 109-117		388
1391	Geochemistry of the Cretaceous-Tertiary (K-T) boundary interval: south-central Saskatchewan and Montana. **1999**, 36, 717-724		12
1390	THE GLOBAL STRATIGRAPHY OF THE CRETACEOUS-TERTIARY BOUNDARY IMPACT EJECTA. **1999**, 27, 75-113		312
1389	Natural Fullerenes-Will they Offer a Hint to the Selective Synthesis of Fullerenes?. **1999**, 7, 637-652		5
1388	Self-organized criticality. **1999**, 62, 1377-1429		349
1387	Fullerenes found in the Permo-Triassic mass extinction period. **1999**, 26, 767-770		26
1386	Carbonatite alkaline magmatism associated with continental flood basalts at stratigraphic boundaries: Cause for mass extinctions. **1999**, 26, 1917-1920		51
1385	Ringed structural zones with deep roots formed by the Chicxulub impact. **1999**, 104, 10743-10755		21
1384	Oceanic primary productivity and dissolved oxygen levels at the Cretaceous/Tertiary Boundary: Their decrease, subsequent warming, and recovery. **1999**, 14, 511-524		59
1383	The Dynamics of Small Bodies in the Solar System. **1999**,		
1382	Palaeotemperature curve for the Late Cretaceous of the northwestern circum-Pacific. *Cretaceous Research*, **1999**, 20, 685-697	1.8	37
1381	Characterization of n-alkanes, pristane and phytane in the Cretaceous/Tertiary boundary sediments at Kawaruppu, Hokkaido, Japan.. **1999**, 33, 285-294		9
1380	Vertebrate faunal changes through Lancian and Puercan time in southern Wyoming. **1999**, 73, 691-710		55
1379	Distribution of polycyclic aromatic hydrocarbons in the K/T boundary sediments at Kawaruppu, Hokkaido, Japan.. **1999**, 33, 305-315		6
1378	Dinosaur abundance was not declining in a □ m gap□at the top of the Hell Creek Formation, Montana and North Dakota. **2000**, 28, 523		36
1377	Dinosaur abundance was not declining in a □ m gap□at the top of the Hell Creek Formation, Montana and North Dakota: Comment and Reply. **2000**, 28, 1150		3
1376	Shock induced vaporization of anhydrite CaSO4 and calcite CaCO3. **2000**,		2

1375 Global climate change and North American mammalian evolution. **2000**, 26, 259-288 92

1374 Cretaceous age for Ir-rich Deccan intertrappean deposits: palaeontological evidence from Anjar, western India. **2000**, 157, 257-260 54

1373 The oldest impact deposits on earth □First confirmation of an extraterrestrial component. **2000**, 99-115 48

1372 Search for petrographic and geochemical evidence for the late heavy bombardment on earth in early archean rocks from Isua, Greenland. **2000**, 73-97 25

1371 Asteroid Impact Tsunami: A Probabilistic Hazard Assessment. **2000**, 145, 64-78 123

1370 An □amino pyridine resin preconcentration method for iridium in environmental and geological samples. **2000**, 403, 243-247 12

1369 >Fossils explained 29: Processes and patterns of mass extinction. **2000**, 16, 116-119

1368 Trajectories to extinction: spatial dynamics of the contraction of geographical ranges. **2000**, 27, 169-179 170

1367 Discovery of probable Tunguska cosmic body material: anomalies of platinum group elements and rare-earth elements in peat near the Explosion Site (1908). **2000**, 48, 1447-1455 13

1366 Platinum group metals (PGM); occurrence, use and recent trends in their determination. **2000**, 19, 565-586 223

1365 Astronomy: eyes wide shut. **2000**, 403, 145, 147-8 13

1364 100 and 50 years ago. **2000**, 403, 145-145 9

1363 Risks of hazardous waste sites versus asteroid and comet impacts: accounting for the discrepancies in U.S. resource allocation. **2000**, 20, 895-904 11

1362 Origin of the Peâlver Formation in northwestern Cuba and its relation to K/T boundary impact event. **2000**, 135, 295-320 53

1361 Late Frasnian□amennian climates based on palynomorph analyses and the question of the Late Devonian glaciations. **2000**, 52, 121-173 220

1360 The Hulopoe Gravel, Lanai, Hawaii: New Sedimentological Data and their Bearing on the □iant Wave□(Mega-Tsunami) Emplacement Hypothesis. *Pure and Applied Geophysics*, **2000**, 157, 1257-1284 2.2 35

1359 Late Cretaceous incident light reduction: evidence from benthic algae. **2000**, 33, 205-213 21

1358 Discovery and significance of microspherules at Lower-Middle Devonian boundary of Guangxi, South China. **2000**, 43, 302-307 1

1357	Global climate change and North American mammalian evolution. **2000**, 26, 259-288	86
1356	Carbon Isotope Excursion in Atmospheric CO2 at the Cretaceous-Tertiary Boundary: Evidence from Terrestrial Sediments. **2000**, 15, 314-322	64
1355	Competitive displacement among post-Paleozoic cyclostome and cheilostome bryozoans. **2000**, 26, 7-18	61
1354	Climate as a problem of physics. **2000**, 43, 381-406	20
1353	Mass Extinctions and the Rare Earth Hypothesis. **2000**, 157-189	
1352	Vredefort, Sudbury, Chicxulub: Three of a Kind?. **2000**, 28, 305-338	118
1351	The mitigation, management, and survivability of asteroid/comet impact with Earth. **2000**, 16, 213-222	26
1350	Extraterrestrial impacts and wildfires. **2000**, 164, 57-66	37
1349	The Pre-Quaternary history of fire. **2000**, 164, 281-329	418
1348	Sorption and desorption of iridium by coastal sediment: effects of iridium speciation and sediment components. **2000**, 166, 15-22	8
1347	Copper and copper(II) porphyrins of the Cretaceous–Tertiary boundary at Stevns Klint (Denmark). **2000**, 177, 105-118	18
1346	Late Eocene impact ejecta: geochemical and isotopic connections with the Popigai impact structure. **2000**, 181, 473-487	53
1345	Cosmic markers, 40Ar/39Ar dating and paleomagnetism of the KT sections in the Anjar Area of the Deccan large igneous province. **2000**, 182, 137-156	106
1344	Coexisting altered glass and Fe–Ni oxides at the Cretaceous–Tertiary boundary, Stevns Klint (Denmark): direct evidence of meteorite impact. **2000**, 182, 127-136	35
1343	Chicxulub impactites: Geochemical clues to the precursor rocks. **2000**, 35, 1229-1238	42
1342	Abstracts. **2000**, 35, A19-A180	13
1341	Hydrocode modeling of oblique impacts: The fate of the projectile. **2000**, 35, 117-130	159
1340	Natural Hazards: Geology, Engineering, Agriculture, and Sociopolitical/Humanitarian Considerations for the Twenty-First Century. **2000**, 42, 617-656	2

1339	UNAM Scientific Shallow-Drilling Program of the Chicxulub Impact Crater. **2000**, 42, 928-940		35
1338	Cretaceous-Tertiary foraminiferal succession at Flaxbourne River, Marlborough, New Zealand. **2000**, 43, 1-20		18
1337	Terrestrial ecosystem responses to global environmental change across the Cretaceous-Tertiary boundary. **2000**, 27, 2149-2152		8
1336	The crystal structures of synthetic Re- and PGE-bearing magnesioferrite Spinels: Implications for impacts, accretion and the mantle. **2001**, 28, 619-622		31
1335	Mass Extinctions, Concept of. **2001**, 156-166		
1334	Carbon and Oxygen Isotope Compositions of Some Upper Cretaceous–Paleocene Sequences in Argentina and Chile. **2001**, 43, 892-909		17
1333	A short duration of the Cretaceous-Tertiary boundary event: evidence from extraterrestrial helium-3. *Science*, **2001**, 291, 1952-5	33.3	71
1332	Accretion of Extraterrestrial Matter Throughout Earth's History. **2001**,		6
1331	The Nature and Origin of Supraspecific Taxa Revisited, with Special Reference to Trilobita. **2001**, 341-375		3
1330	Extraterrestrial iridium, sediment accumulation and the habitability of the early Earth's surface. **2001**, 106, 3219-3236		50
1329	Spatial variability in petrophysical properties in Upper Maastrichtian chalk outcrops at Stevns Klint, Denmark. **2001**, 18, 1041-1062		55
1328	Oral histories in meteoritics and planetary science: I. Edward Anders. **2001**, 36, A255-A267		
1327	Oral histories in meteoritics and planetary science: II. Robert N. Clayton. **2001**, 36, A269-A274		1
1326	Presence of an iron-rich nanophase material in the upper layer of the Cretaceous-Tertiary boundary clay. **2001**, 36, 123-133		40
1325	Ecological catastrophe in connection with the impact of the Kaali meteorite about 800–400 B.C. on the island of Saaremaa, Estonia. **2001**, 36, 1367-1375		25
1324	Authors' Reply. **2001**, 36, 1001-1006		3
1323	Episodicity during orogenesis. **2001**, 184, 89-113		41
1322	Micropaleontology and sedimentology across the Cretaceous/Tertiary boundary at La Ceiba (Mexico): impact-generated sediment gravity flows. **2001**, 14, 505-519		15

1321	Methodological and contextual factors in the Dawkins/Gould dispute over evolutionary progress. **2001**, 32, 127-151		17
1320	Water column anoxia, enhanced productivity and concomitant changes in δ13C and δ34S across the Frasnian–Famennian boundary (Kowala – Holy Cross Mountains/Poland). **2001**, 175, 109-131		173
1319	Timing of the Permian–Triassic biotic crisis: implications from new zircon U/Pb age data (and their limitations). **2001**, 187, 131-145		168
1318	Shock-induced vaporization of anhydrite and global cooling from the K/T impact. **2001**, 188, 399-412		43
1317	Rapid (10-yr) recovery of terrestrial productivity in a simulation study of the terminal Cretaceous impact event. **2001**, 192, 137-144		22
1316	K/Ar evidence from illitic clays of a Late Devonian age for the 120 km diameter Woodleigh impact structure, Southern Carnarvon Basin, Western Australia. **2001**, 192, 281-289		41
1315	Impact-generated carbonate melts: evidence from the Haughton structure, Canada. **2001**, 194, 17-29		104
1314	The "multiple impacts hypothesis" for mass extinction: a comparison of the Late Devonian and the late Eocene. **2001**, 176, 47-58		43
1313	Impact event at the Permian-Triassic boundary: evidence from extraterrestrial noble gases in fullerenes. *Science*, **2001**, 291, 1530-3	33.3	311
1312	Impacts and mass extinctions: papers in honour of Glen Caldwell. **2001**, 38, 119-120		
1311	The significance of multiple causes and coincidence in the geological record: from clam clusters to Cretaceous catastrophe. **2001**, 38, 271-292		8
1310	The "Great Extinction" that never happened: the demise of the dinosaurs considered. **2001**, 38, 239-247		15
1309	Global biodiversity and the ancient carbon cycle. **2001**, 98, 4305-10		38
1308	Historical science, experimental science, and the scientific method. **2001**, 29, 987		148
1307	Paleoecotoxicology: the impact of chemical and physical stress in the evolutionary process. **2001**, 109, A564-6		5
1306	Thiophenes in the Cretaceous/Tertiary boundary sediments at Kawaruppu, Hokkaido, Japan.. **2001**, 35, 67-76		2
1305	Benthic foraminifera at the Cretaceous-Tertiary boundary around the Gulf of Mexico. **2001**, 29, 891		66
1304	Maleimides in the Cretaceous/Tertiary boundary sediments at Kawaruppu, Hokkaido, Japan.. **2001**, 35, 365-375		14

1303	Extinction: K Mass Extinction. **2001**,	
1302	Solar System Objects Observed in the Sloan Digital Sky Survey Commissioning Data. **2001**, 122, 2749-2784	314
1301	Geochemistry of the Cretaceous-Tertiary boundary at Blake Nose (ODP Leg 171B). **2001**, 183, 131-148	11
1300	Geochemical evidence for the characteristic of the 1908 Tunguska explosion body in Siberia, Russia. **2001**, 44, 1029-1037	3
1299	High iridium concentration of alkaline rocks of Deccan and implications to K/T boundary. **2001**, 110, 103-110	5
1298	Geochemistry and magnetostratigraphy of deccan flows at Anjar, Kutch. **2001**, 110, 111-132	17
1297	SHIELD: a comprehensive earth-protection architecture. **2001**, 28, 1149-1158	5
1296	Near-Earth object velocity distributions and consequences for the Chicxulub impactor. **2001**, 327, 126-132	30
1295	The end-cretaceous mass extinction in the marine realm: year 2000 assessment. **2001**, 49, 817-830	85
1294	Are Ir anomalies sufficient and unique indicators for cosmic events?. **2001**, 49, 831-837	23
1293	Paleoecotoxicology: Extending environmental toxicology and chemistry to the interpretation of the fossil record. **2001**, 20, 1623-1624	3
1292	What are Lazarus taxa?. **2001**, 36, 291-303	67
1291	History of marine biodiversity. **2001**, 36, 231-249	30
1290	Determination of platinum group elements in impact breccias using neutron activation analysis and ultrasonic nebulization inductively coupled plasma mass spectrometry after anion exchange preconcentration. **2001**, 436, 79-85	69
1289	Stevns Klint Fish Clay (FC-1): Preparation of, and Preliminary Results for, a Candidate Reference Material. **2001**, 25, 159-166	10
1288	Determination of Platinum-Group Elements and Forty Two Other Elements in Two Candidate Danish Cretaceous-Tertiary Boundary Clay Reference Materials by INAA, ENAA and RNAA. **2001**, 25, 167-171	7
1287	Large igneous provinces and mass extinctions. **2001**, 53, 1-33	836
1286	Orthopithonella collaris sp. nov., a new calcareous dinoflagellate cyst from the K/T boundary (Fish Clay, Stevns Klint/Denmark). **2001**, 115, 69-77	9

1285	An extraterrestrial impact at the Permian-Triassic boundary?. *Science*, **2001**, 293, 2343	33.3	75
1284	Gravitational Effects of Earth in Optimizing ?V for Deflecting Earth-Crossing Asteroids. **2001**, 38, 759-764		21
1283	A multiplicative multifractal model for originations and extinctions. **2001**, 27, 126-139		48
1282	The deprivation syndrome is the driving force of phylogeny, ontogeny and oncogeny. **2001**, 12, 217-87		10
1281	Fossil Meteorites. **2001**, 319-331		5
1280	Accretion to Earth and Moon ~3.85 Ga. **2001**, 423-446		3
1279	The Consequences of Citing Hedged Statements in Scientific Research Articles. **2001**, 51, 1086		16
1278	The Sedimentary Record of Impact Events. **2001**, 333-378		16
1277	The Terrestrial Cratering Record. **2001**, 379-402		11
1276	The Lunar Record of Recent Impact Cratering. **2001**, 403-422		3
1275	Palynologically calibrated vertebrate record from North Dakota consistent with abrupt dinosaur extinction at the Cretaceous-Tertiary boundary. **2001**, 29, 39		30
1274	The high oxygen atmosphere toward the end-Cretaceous; a possible contributing factor to the K/T boundary extinctions and to the emergence of C(4) species. **2001**, 52, 801-9		12
1273	Extinctions in the random replicator model. **2001**, 64, 051911		14
1272	The Frasnian-Famennian (mid-Late Devonian) boundary in the type section of the Long Rapids Formation, James Bay Lowlands, northern Ontario, Canada. **2002**, 39, 1795-1818		28
1271	An archean impact layer from the Pilbara and Kaapvaal cratons. *Science*, **2002**, 297, 1325-7	33.3	122
1270	Geology: from an Earth to a planetary science in the twentieth century. **2002**, 192, 17-57		1
1269	Catastrophic extinction of Caribbean rudist bivalves at the Cretaceous-Tertiary boundary. **2002**, 30, 999		44
1268	Earth's biggest 'whodunnit': unravelling the clues in the case of the end-Permian mass extinction. **2002**, 360, 2963-85		35

1267	Some personal thoughts on stratigraphic precision in the twentieth century. **2002**, 192, 251-272		9
1266	Impact dust not the cause of the Cretaceous-Tertiary mass extinction. **2002**, 30, 99		86
1265	Sedimentology: from single grains to recent and past environments: some trends in sedimentology in the twentieth century. **2002**, 192, 241-250		1
1264	Analogy Counterarguments and the Acceptability of Analogical Hypotheses. **2002**, 53, 477-496		14
1263	An atmospheric pCO2 reconstruction across the Cretaceous-Tertiary boundary from leaf megafossils. **2002**, 99, 7836-40		137
1262	Review of the mineralogy of the Cretaceous-Tertiary boundary clay: evidence supporting a major extraterrestrial catastrophic event. **2002**, 37, 395-411		17
1261	4 Consilience in oceanographic and fishery research: A concept and some digressions. **2002**, 41-46		
1260	Clay mineralogy of the Late Cretaceous and early Tertiary successions of the Cauvery Basin (southeastern India): implications for sediment source and palaeoclimates at the K/T boundary. *Cretaceous Research*, **2002**, 23, 153-163	1.8	42
1259	Climatic effects of an impact-induced equatorial debris ring. **2002**, 107, ACL 2-1		5
1258	Trajectories and distribution of material ejected from the Chicxulub impact crater: Implications for postimpact wildfires. **2002**, 107, 6-1		64
1257	Inference on the nature and the mass of Earth's late veneer from noble metals and gases. **2002**, 107, 12-1-12-7		36
1256	Stable-Isotope and Trace Element Stratigraphy of the Jurassic/Cretaceous Boundary, Bosso River Gorge, Italy. **2002**, 25-68		4
1255	A Geographic Database Approach to the KT Boundary. **2002**, 83-140		4
1254	Geological and Biological Effects of Impact Events. **2002**,		2
1253	Impact of the terminal Cretaceous event on plant-insect associations. **2002**, 99, 2061-6		207
1252	The oldest Cenozoic mammal?. **2002**, 22, 456-459		2
1251	Methodological and Epistemic Differences between Historical Science and Experimental Science*. **2002**, 69, 447-451		207
1250	Soft Plate and Impact Tectonics. **2002**,		25

1249	Gaia as a complex adaptive system. **2002**, 357, 683-95	67
1248	Quantifying the evolutionary turnover across the K-T boundary catastrophic planktic foraminiferal extinction event at El Kef, Tunisia. **2002**, 124, 121-126	5
1247	The Analogy Theory of Disanalogy: When Conclusions Collide. **2002**, 17, 81-97	5
1246	Shock temperature in calcite (CaCO3) at 95160 GPa. **2002**, 201, 1-12	21
1245	Impact induced melting and the development of large igneous provinces. **2002**, 202, 551-561	100
1244	A multi-isotopic and trace element investigation of the CretaceousTertiary boundary layer at Stevns Klint, Denmark Inferences for the origin and nature of siderophile and lithophile element geochemical anomalies. **2002**, 203, 691-708	52
1243	Extraterrestrial influences on mantle plume activity. **2002**, 205, 53-62	51
1242	Testing the resolution of a 3D velocity tomogram across the Chicxulub crater. **2002**, 355, 215-226	28
1241	A possible causal relationship between extinction of dinosaurs and K/T iridium enrichment in the Nanxiong Basin, South China: evidence from dinosaur eggshells. **2002**, 178, 1-17	48
1240	Late Maastrichtian to early Danian calcareous nannofossils at Elles (Northwest Tunisia). A tale of one million years across the K boundary. **2002**, 178, 211-231	60
1239	High-resolution planktonic foraminiferal analysis from the CretaceousTertiary boundary at Ain Settara (Tunisia): evidence of an extended mass extinction. **2002**, 178, 299-319	43
1238	Geophysical records of dispersed weathering products on the Frasnian carbonate platform and early Famennian ramps in Moravia, Czech Republic: proxies for eustasy and palaeoclimate. **2002**, 181, 213-250	36
1237	Growth and demise of Permian biogenic chert along northwest Pangea: evidence for end-Permian collapse of thermohaline circulation. **2002**, 184, 37-63	195
1236	Mineralogical and geochemical aspects of impact craters. **2002**, 66, 745-768	38
1235	Biomass burning a review of organic tracers for smoke from incomplete combustion. **2002**, 17, 129-162	1076
1234	La coupe d'Ouled Haddou (Rif externe oriental) : un affleurement continu de la transition CrtacPalogie au Maroc, rvl par les Foraminifres planctoniques. **2002**, 334, 995-1001	7
1233	Fostering links between environmental and space exploration: the Earth and Space Foundation. **2002**, 18, 301-306	
1232	Thermal decomposition pattern and particle size estimation of iron minerals associated with the Cretaceous-Tertiary boundary at Gubbio. **2002**, 37, 901-909	18

1231 Boltysh, another end-Cretaceous impact. **2002**, 37, 1031-1043 42

1230 Mapping an Iron-Meteorite Impact Site with a Magnetometer, and Implications for the Probability of a Catastrophic Impact on Earth. **2002**, 7, 143-150 7

1229 Preface. **2002**, ix-x

1228 AEROSOL PARTICLES IN SMOG AND THE GLOBAL ENVIRONMENT. **2002**, 115-144

1227 EFFECTS OF METEOROLOGY ON AIR POLLUTION. **2002**, 145-178 1

1226 BASICS AND HISTORY OF DISCOVERY OF ATMOSPHERIC CHEMICALS. **2002**, 1-28

1225 THE SUN, THE EARTH, AND THE EVOLUTION OF THE EARTH'S ATMOSPHERE. **2002**, 29-48

1224 STRUCTURE AND COMPOSITION OF THE PRESENT-DAY ATMOSPHERE. **2002**, 49-80

1223 EFFECTS OF POLLUTION ON VISIBILITY, ULTRAVIOLET RADIATION, AND ATMOSPHERIC OPTICS. **2002**, 179-208

1222 INTERNATIONAL REGULATION OF URBAN SMOG SINCE THE 1940s. **2002**, 209-240

1221 INDOOR AIR POLLUTION. **2002**, 241-252

1220 ACID DEPOSITION. **2002**, 253-272

1219 THE GREENHOUSE EFFECT AND GLOBAL WARMING. **2002**, 309-352

1218 Appendix: Conversions and Constants. **2002**, 353-354

1217 References. **2002**, 355-370

1216 URBAN AIR POLLUTION. **2002**, 81-114 1

1215 GLOBAL STRATOSPHERIC OZONE REDUCTION. **2002**, 273-308

1214 450 pp Controversy: catastrophism and evolution, the ongoing debate, T. Palmer, (HB), £15 , Kluwer/Plenum, New York (1999), ISBN: 0-306-45751-2. **2002**, 113, 275-278

1213	Controversy-catastrophism and evolution: the ongoing debate by Trevor Palmer, Kluwer Academic/Plenum Publishers, Dordrecht, 1999. No. of pages: 468 (hardback). ISBN 0 306 45751 2.. **2002**, 37, 349-350	
1212	Numerical model of dust ejection induced by meteoroid impacts. **2002**, 27, 377-385	1
1211	Determinants of extinction in the fossil record. **2002**, 416, 420-4	167
1210	Evaluating Cometary Delivery of Organics to the Early Earth. **2002**, 36, 50-61	2
1209	A Cellular Genetic Algorithm with Disturbances: Optimisation Using Dynamic Spatial Interactions. **2002**, 8, 321-342	20
1208	RECOGNIZINGMANTLEPLUMES IN THEGEOLOGICALRECORD. **2003**, 31, 469-523	239
1207	Benthic foraminifera across the Cretaceous□Tertiary (K□) boundary: a review. **2003**, 47, 177-226	86
1206	Benthic foraminiferal turnover across the Cretaceous/Paleogene boundary at Agost (southeastern Spain): paleoenvironmental inferences. **2003**, 48, 251-279	102
1205	Multiple impacts across the Cretaceous□Tertiary boundary. **2003**, 62, 327-363	99
1204	Characterization of a branch of the phylogenetic tree. **2003**, 220, 457-68	1
1203	Deev Jahi Model of the Permian□Triassic boundary mass extinction: a case for gas hydrates as the main cause of biological crisis on Earth. **2003**, 163, 147-163	79
1202	Isotopic□eochemical study of nitrogen and carbon in peat from the Tunguska Cosmic Body explosion site. **2003**, 161, 235-243	14
1201	Global repeating events in the history of the Earth and the motion of the Sun in the Galaxy. **2003**, 47, 925-933	6
1200	High Precision Ru, Pd, Ir, Pt, Re and REE Determinations in the Stevns Klint Cretaceous-Tertiary Boundary Reference Material (FC-1) by Isotope Dilution Multiple Collector Inductively Coupled Plasma-Mass Spectrometry. **2003**, 27, 59-66	13
1199	Resistance of spiders to Cretaceous-Tertiary extinction events. **2003**, 57, 2599-607	34
1198	The spiral structure of the Milky Way, cosmic rays, and ice age epochs on Earth. **2003**, 8, 39-77	155
1197	Dynamics of evolutionary patterns of clades in a food web system model. **2003**, 18, 625-637	16
1196	A search for soot from global wildfires in central Pacific Cretaceous-Tertiary boundary and other extinction and impact horizon sediments. **2003**, 3, 91-7	15

1195	Recognition of Martellidendron, a new genus of Pandanaceae, and its biogeographic implications. **2003**, 52, 747-762		2
1194	Comparing the evidence relevant to impact and flood basalt at times of major mass extinctions. **2003**, 3, 153-61		45
1193	Impact at the Permo-Triassic boundary: a critical evaluation. **2003**, 3, 67-74		25
1192	Late Cretaceous and Paleocene terrestrial climates of New Zealand: Leaf fossil evidence from South Island assemblages. **2003**, 46, 295-306		35
1191	Investigating a 65-Ma-old smoking gun: Deep drilling of the Chickxulub Impact Structure. **2003**, 84, 125		62
1190	Paleoenvironmental changes across the Cretaceous/Tertiary boundary at Flaxbourne River and Woodside Creek, eastern Marlborough, New Zealand. **2003**, 46, 177-197		32
1189	Environmental consequences of impact cratering events as a function of ambient conditions on Earth. **2003**, 3, 133-52		53
1188	Biostratigraphic review of the Cretaceous/Tertiary boundary transition, mid-Waipara River section, North Canterbury, New Zealand. **2003**, 46, 243-253		23
1187	Pollen and spores in marine Cretaceous/Tertiary boundary sediments at mid-Waipara River, North Canterbury, New Zealand. **2003**, 46, 255-273		65
1186	Geochemical variability of the Yucat^n basement: Constraints from crystalline clasts in Chicxulub impactites. **2003**, 38, 1079-1092		32
1185	Oral histories in meteoritics and planetary science: X. Ralph B. Baldwin. **2003**, 38, A163-A175		2
1184	A complete classification of Darwinian extinction in ecological interactions. **2003**, 161, 181-205		72
1183	The causes of Phanerozoic extinctions. **2003**, 253-277		11
1182	The K□ boundary in Oman: identified using magnetic susceptibility field measurements with geochemical confirmation. **2003**, 206, 529-540		54
1181	A case for a comet impact trigger for the Paleocene/Eocene thermal maximum and carbon isotope excursion. **2003**, 211, 13-26		144
1180	Rapid eruption of Siberian flood-volcanic rocks and evidence for coincidence with the Permian□riassic boundary and mass extinction at 251 Ma. **2003**, 214, 75-91		399
1179	Platinum-group elements (PGE) and rhenium in marine sediments across the Cretaceous□ertiary boundary: constraints on Re-PGE transport in the marine environment. **2003**, 67, 655-670		50
1178	Co-existent cristobalite and iridium at 65 Ma, Anjar Intertrappeans, Kachchh, western India. *Cretaceous Research*, **2003**, 24, 105-110	1.8	10

1177	A review of the risks of sudden global cooling and its effects on agriculture. **2003**, 115, 127-137		15
1176	How to kill (almost) all life: the end-Permian extinction event. **2003**, 18, 358-365		353
1175	Chondritic meteorite fragments associated with the Permian-Triassic boundary in Antarctica. *Science*, **2003**, 302, 1388-92	33.3	108
1174	Impact Markers in the Stratigraphic Record. **2003**,		6
1173	The Geologic History of the Carbon Cycle. **2003**, 425-472		11
1172	The Geochemistry of Mass Extinction. **2003**, 351-367		6
1171	Determination of arsenic in dinosaur skeleton fossils by hydride generation atomic fluorescence spectrometry. **2003**, 77, 29-29		
1170	Terrestrial and Extraterrestrial Fullerenes. **2003**, 11, 333-370		42
1169	Cenozoic bolide impacts and biotic change in North American mammals. **2003**, 3, 119-32		4
1168	Chicxulub and climate: radiative perturbations of impact-produced S-bearing gases. **2003**, 3, 99-118		88
1167	The Cretaceous/Tertiary boundary event in New Zealand: Profiling mass extinction. **2003**, 46, 307-321		22
1166	Orbitally controlled cyclicity around the Cretaceous/Tertiary boundary, northern South Island, New Zealand. **2003**, 46, 235-241		6
1165	Paleoenvironmental and tectonic changes across the Cretaceous/Tertiary boundary at Tora, southeast Wairarapa, New Zealand: A link between Marlborough and Hawke's Bay. **2003**, 46, 275-293		10
1164	Geosciences. Impact cratering comes of age. *Science*, **2003**, 300, 1889-90	33.3	4
1163	Correlated terrestrial and marine evidence for global climate changes before mass extinction at the Cretaceous-Paleogene boundary. **2003**, 100, 599-604		175
1162	RESISTANCE OF SPIDERS TO CRETACEOUS□ERTIARY EXTINCTION EVENTS. **2003**, 57, 2599		28
1161	Petrographic criteria for recognizing certain types of impact spherules in well-preserved precambrian successions. **2003**, 3, 49-65		48
1160	Impacts and evolution: future prospects. **2003**, 3, 193-205		3

1159	On the continuity of background and mass extinction. **2003**, 29, 455-467	34
1158	Successive Refinements in Long-Term Integrations of Planetary Orbits. **2003**, 592, 620-630	84
1157	Fireball passes and nothing burns□The role of thermal radiation in the Cretaceous-Tertiary event: Evidence from the charcoal record of North America. **2003**, 31, 1061	61
1156	Redeposited chalk hydrocarbon reservoirs of the North Sea caused by the Chicxulub K-T bolide impact. **2003**, 82, 333-337	
1155	The Acraman asteroid impact, South Australia: magnitude and implications for the late Vendian environment. **2003**, 160, 545-554	36
1154	87Sr/86Sr test of the degree of impact-induced slope failure in the Maastrichtian of the western North Atlantic. **2003**, 31, 311	8
1153	Element profiles and Ir concentration of Cretaceous-Tertiary (K-T) boundary layers at Medetli, Goelpazari, northwestern Turkey. **2003**, 37, 681-693	2
1152	Ozone Depletion from Nearby Supernovae. **2003**, 585, 1169-1176	136
1151	Precise determination of PGE in a GSJ reference sample JP-1 by ID-ICPMS after nickel sulfide fire assay preconcentration. **2003**, 37, 531-536	25
1150	Geochronometry of Marine Deposits. **2003**, 321-341	2
1149	Encyclopedia of Sediments and Sedimentary Rocks. **1978**, 993-998	1
1148	Changes in the occurrence of heavy metals in polar ice during the last climatic cycles, with special emphasis on the possible link between cosmic dust accretion rate and the 100 kyr cycle. **2003**, 107, 499-503	1
1147	Mass extinctions in plant evolution. **2004**, 61-98	16
1146	Extinction and the fossil record. **2004**, 1-34	7
1145	The beginning of the Mesozoic: 70 million years of environmental stress and extinction. **2004**, 99-118	3
1144	Causes of mass extinctions. **2004**, 119-150	6
1143	Impacts and the public: communicating the nature of the impact hazard. **2004**, 353-390	14
1142	Periodic explosive expansion of human retroelements associated with the evolution of the hominoid primate. **2004**, 19, 177-85	28

1141	BOOK REVIEWS. **2004**, 19, 418-418		
1140	Tertiary Dinosaurs in the Nanxiong Basin, Southern China, Are Reworked from the Cretaceous. **2004**, 112, 111-118		12
1139	Reappraisal of the KT boundary succession at Stevns Klint, Denmark. **2004**, 161, 885-892		34
1138	Chicxulub impact predates the K-T boundary mass extinction. **2004**, 101, 3753-8		92
1137	Bedout: a possible end-Permian impact crater offshore of northwestern Australia. *Science*, **2004**, 304, 1469-76	33.3	164
1136	Drawing a line in the sand: identifying and characterizing boundaries in the geological record. **2004**, 230, 1-10		
1135	Land plant extinction at the end of the Cretaceous: a quantitative analysis of the North Dakota megafloral record. **2004**, 30, 347-368		116
1134	Near Earth Objects: A brief review and a student project. **2004**, 72, 264-271		2
1133	Trace fossils after the KT boundary event from the Agost section, SE Spain. **2004**, 141, 429-440		54
1132	Early precambrian asteroid impact-triggered tsunami: excavated seabed, debris flows, exotic boulders, and turbulence features associated with 3.47-2.47 Ga-old asteroid impact fallout units, Pilbara Craton, Western Australia. **2004**, 4, 19-50		37
1131	Deviation from Red Queen behaviour at stratigraphic boundaries: evidence for directional recovery. **2004**, 230, 35-46		1
1130	SHRIMP U-Pb zircon dating of the uppermost Cretaceous Furao Formation near the Heilong River: An age closest to the K/T boundary. **2004**, 49, 860		
1129	An Essay on Some Topics Concerning Invasive Species. **2004**, 29, 530-536		115
1128	Phylogeny and biogeography of Caribbean mammals. **2004**, 81, 373-394		73
1127	Palaeoecology of a post-extinction reef: Famennian (Late Devonian) of the Canning Basin, north-western Australia. *Palaeontology*, **2004**, 47, 415-445	2.9	20
1126	Geochemical evidence from the Sudbury structure for crustal redistribution by large bolide impacts. **2004**, 429, 546-8		49
1125	Meteoric smoke fallout over the Holocene epoch revealed by iridium and platinum in Greenland ice. **2004**, 432, 1011-4		124
1124	The impact of humidity above stratiform clouds on indirect aerosol climate forcing. **2004**, 432, 1014-7		504

1123	In-situ Ir concentration measurements in KT-boundary sediments by accelerator secondary ion mass spectrometry. **2004**, 219-220, 176-180		2
1122	Assessing the record and causes of Late Triassic extinctions. **2004**, 65, 103-139		234
1121	Order or chaos? Origin and mode of emplacement of breccias in floors of large impact structures. **2004**, 67, 1-54		45
1120	History, philosophy, and application of the Global Stratotype Section and Point (GSSP). **2004**, 37, 201-218		39
1119	Analogy Counterarguments: A Taxonomy for Critical Thinking. **2004**, 18, 223-238		15
1118	The evolution of semantic systems. **2004**, 1013, 150-77		10
1117	Assessing NEO hazard mitigation in terms of astrodynamics and propulsion systems requirements. **2004**, 1017, 350-69		2
1116	Yaxcopoil-1 and the Chicxulub impact. **2004**, 93, 1042-1065		24
1115	SHRIMP U-Pb zircon dating of the uppermost cretaceous furao formation near the Heilong River: An age closest to the K/T boundary. **2004**, 49, 860-862		9
1114	The age of the Kaali meteorite craters and the effect of the impact on the environment and man: evidence from inside the Kaali craters, island of Saaremaa, Estonia. **2004**, 13, 197		16
1113	A comet impact in AD 536?. **2004**, 45, 1.23-1.26		21
1112	Determination of arsenic in dinosaur skeleton fossils by hydride generation atomic fluorescence spectrometry. **2004**, 77, 29-35		10
1111	Bias-corrected population, size distribution, and impact hazard for the near-Earth objects. **2004**, 170, 295-311		181
1110	Platinum group element abundances in a peat layer associated with the Tunguska event, further evidence for a cosmic origin. **2004**, 52, 331-340		18
1109	Deflection of near-Earth asteroids by kinetic energy impacts from retrograde orbits. **2004**, 52, 587-590		74
1108	Anthropic selection for the Moon's mass. **2004**, 4, 460-8		15
1107	Fungal proliferation at the Cretaceous-Tertiary boundary. *Science*, **2004**, 303, 1489	33.3	87
1106	Trace fossils in the aftermath of mass extinction events. **2004**, 228, 397-418		38

1105	Determination of Ir and Pt down to the sub-femtogram per gram level in polar ice by ICP-SFMS using preconcentration and a desolvation system. **2004**, 19, 831-837	35
1104	Dinoflagellate cyst record of the deep-sea Cretaceous-Tertiary boundary at Uzgru□ ,Carpathian Mountains, Czech Republic. **2004**, 230, 257-273	11
1103	Paleoenvironmental Recovery After the Cretaceous/ Paleogene Boundary Crisis: Evidence From the Marine Bidart Section (SW France). **2004**, 19, 574-586	29
1102	Records of post□Cretaceous-Tertiary boundary millennial-scale cooling from the western Tethys: A smoking gun for the impact-winter hypothesis?. **2004**, 32, 529	35
1101	The Cretaceous/Paleogene Transition on the East Tasman Plateau, Southwestern Pacific. **2004**, 93-112	3
1100	Impact melts and glasses on Mars. **2004**, 109,	47
1099	Plankton community behavior on ecological and evolutionary time-scales: when models confront evidence. **2004**, 455-479	5
1098	Evolutionary Trajectories and Biogeochemical Impacts of Marine Eukaryotic Phytoplankton. **2004**, 35, 523-556	151
1097	Two- and three-dimensional asteroid impact simulations. **2004**, 6, 46-55	20
1096	Cratering in Marine Environments and on Ice. **2004**,	8
1095	SHOCKWAVE/GEOPHYSICAL ANDMEDICALAPPLICATIONS. **2004**, 36, 347-379	50
1094	Summary of the 2002 Arlington Workshop on the Scientific Requirements for Mitigation of Hazardous Comets and Asteroids. **2004**,	
1093	Paving the Way for an Effective Deflection Mission: State of the Art NEO Precursor Missions. **2004**,	3
1092	The hazard of near-Earth asteroid impacts on earth. **2004**, 222, 1-15	91
1091	The Central Atlantic Magmatic Province at the Triassic□Jurassic boundary: paleomagnetic and 40Ar/39Ar evidence from Morocco for brief, episodic volcanism. **2004**, 228, 143-160	190
1090	The rise of birds and mammals: are microevolutionary processes sufficient for macroevolution?. **2004**, 19, 516-22	51
1089	Reply to a comment on □A case for a comet impact trigger for the Paleocene/Eocene thermal maximum and carbon isotope excursion□by G.R. Dickens and J.M. Francis. **2004**, 217, 201-205	4
1088	Contemporaneous mass extinctions, continental flood basalts, and □impact signals□are mantle plume-induced lithospheric gas explosions the causal link?. **2004**, 217, 263-284	78

1087	Sulfur chemistry in laser-simulated impact vapor clouds: implications for the K/T impact event. **2004**, 218, 347-361	22
1086	TEM study of meteorite impact glass at New Zealand Cretaceous–Tertiary sites: evidence for multiple impacts or differentiation during global circulation?. **2004**, 219, 209-219	15
1085	Iridium anomalies and fractionated siderophile element patterns in impact ejecta, Brockman Iron Formation, Hamersley Basin, Western Australia: evidence for a major asteroid impact in simatic crustal regions of the early Proterozoic earth. **2004**, 220, 247-264	40
1084	Geochemistry and shock petrography of the Crow Creek Member, South Dakota, USA: Ejecta from the 74-Ma Manson impact structure. **2004**, 39, 31-51	6
1083	The importance of being cratered: The new role of meteorite impact as a normal geological process. **2004**, 39, 169-197	29
1082	Observations at terrestrial impact structures: Their utility in constraining crater formation. **2004**, 39, 199-216	56
1081	The Chicxulub Scientific Drilling Project (CSDP). **2004**, 39, 787-790	54
1080	Paleomagnetic and rock magnetic study of the Yaxcopoil-1 impact breccia sequence, Chicxulub impact crater (Mexico). **2004**, 39, 843-856	14
1079	First petrographic results on impactites from the Yaxcopoil-1 borehole, Chicxulub structure, Mexico. **2004**, 39, 899-930	28
1078	Geochemistry of drill core samples from Yaxcopoil-1, Chicxulub impact crater, Mexico. **2004**, 39, 979-1001	31
1077	Osmium isotope constraints on the proportion of bolide component in Chicxulub impact melt rocks. **2004**, 39, 1003-1008	23
1076	Platinum group elements in impactites of the ICDP Chicxulub drill core Yaxcopoil-1: Are there traces of the projectile?. **2004**, 39, 1009-1016	27
1075	Origin and emplacement of the impact formations at Chicxulub, Mexico, as revealed by the ICDP deep drilling at Yaxcopoil-1 and by numerical modeling. **2004**, 39, 1035-1067	74
1074	More evidence that the Chicxulub impact predates the K/T mass extinction. **2004**, 39, 1127-1144	45
1073	Composition of impact melt particles and the effects of post-impact alteration in suevitic rocks at the Yaxcopoil-1 drill core, Chicxulub crater, Mexico. **2004**, 39, 1169-1186	51
1072	Fluid inclusion evidence for impact-related hydrothermal fluid and hydrocarbon migration in Creataceous sediments of the ICDP-Chicxulub drill core Yax-1. **2004**, 39, 1187-1197	30
1071	The detailed structure and origin of clay minerals at the Cretaceous/Tertiary boundary, Stevns Klint (Denmark). **2004**, 39, 367-390	41
1070	Identifying Phanerozoic extinction controls: statistical considerations and preliminary results. **2004**, 230, 11-33	4

1069	SPHERULE LAYERS – RECORDS OF ANCIENT IMPACTS. **2004**, 32, 329-361		131
1068	Geology and Palaeoceanography. **2004**, 70, 53-73		9
1067	The Cretaceous–Palaeogene boundary at Stevns Klint, Denmark: inversion tectonics or sea-floor topography?. **2004**, 161, 343-352		66
1066	Preliminary identification of fullerenes in the lowermost Jurassic strata, Queen Charlotte Islands, British Columbia. **2004**,		1
1065	Neoselachian (Chondrichthyes, Elasmobranchii) diversity across the Cretaceous–Tertiary boundary. **2004**, 214, 181-194		78
1064	Paleoecological patterns in molluscan extinctions and recoveries: comparison of the Cretaceous–Paleogene and Eocene–Oligocene extinctions in North America. **2004**, 214, 233-242		22
1063	Did impacts, volcanic eruptions, or climate change affect mammalian evolution?. **2004**, 214, 283-294		36
1062	Prospects for Detection of Catastrophic Collisions in Debris Disks. **2005**, 130, 269-279		110
1061	Constraints on the thermal energy released from the Chicxulub impactor: new evidence from multi-method charcoal analysis. **2005**, 162, 591-602		45
1060	Global Village or Cyber-Balkans? Modeling and Measuring the Integration of Electronic Communities. **2005**, 51, 851-868		169
1059	Biological overprint of the geological carbon cycle. **2005**, 217, 323-338		138
1058	"Bioplutonism" and the evolutionary implications of beneficial genes from another biosphere. **2005**, 82, 83-92		1
1057	NEO Impact Consequences and Hazards. **2005**, 6, 283-289		1
1056	The youngest Maastrichtian ammonite faunas from Poland and their dating by scaphitids. *Cretaceous Research*, **2005**, 26, 813-836	1.8	15
1055	A phylogeny of the fossil and extant zeiform-like fishes, Upper Cretaceous to Recent, with comments on the putative zeomorph clade (Acanthomorpha). **2005**, 34, 157-175		18
1054	Spherules from the Late Cretaceous Phosphorite of the Fatehgarh Formation, Barmer Basin, India. **2005**, 8, 579-584		10
1053	Frontiers in large igneous province research. **2005**, 79, 271-297		268
1052	Volcanism, impact and mass extinctions: incredible or credible coincidences?. **2005**, 79, 299-316		103

1051 Asteroid impact tsunamis. **2005**, 6, 361-366 21

1050 Barium anomaly preceding K/T boundary: possible causes and implications on end Cretaceous events of K/T sections in Cauvery basin (India), Israel, NE-Mexico and Guatemala. **2005**, 94, 475-489 22

1049 One equation fits overkill: why allometry underpins both prehistoric and modern body size-biased extinctions. **2005**, 47, 137-141 32

1048 Fossil planktic foraminifera (an overview). **2005**, 79, 149-166 12

1047 Numerical Modeling of the Largest Terrestrial Meteorite Craters. **2005**, 39, 381-409 135

1046 Biostratigraphy and chronostratigraphic classification. **2005**, 271-345

1045 The Consensus View of Conservation Biology. **2005**, 145-184

1044 Tempered Anthropocentrism. **2005**, 75-105

1043 References. **2005**, 231-250

1042 Volcanoes and the geological cycle. **2005**, 121-151

1041 Volcanism and mass extinctions. **2005**, 207-226 3

1040 Introduction. **2005**, 1-20

1039 Concern for the Environment. **2005**, 21-44

1038 Biostratigraphy: its integration into modern geochronology. **2005**, 47-84

1037 Mass Extinctions. **2005**,

1036 Asteroid. **2005**,

1035 Astrobleme. **2005**,

1034 Biogeohistory and the development of classical biostratigraphy. **2005**, 1-18

1033	Preface. **2005**, xi-xiv	
1032	Biodiversity and Environmental Philosophy. **2005**, xvii-xviii	
1031	Problems of Ecology. **2005**, 106-144	
1030	Incommensurability and Uncertainty. **2005**, 185-217	
1029	In Conclusion: Issues for the Future. **2005**, 218-230	
1028	The biostratigraphy of fossil microplankton. **2005**, 19-46	
1027	Intrinsic Values and Biocentrism. **2005**, 45-74	
1026	Mineralogie. **2005**,	2
1025	Planetary Machinery: The Dynamics of the Earth System Prior to Significant Human Influence. **2005**, 11-80	
1024	Lacustrine Fossil Preservation in Acidic Environments: Implications of Experimental and Field Studies for the Cretaceous–Paleogene Boundary Acid Rain Trauma. **2005**, 20, 376-389	9
1023	CYCLIC FLUCTUATIONS, CLIMATIC CHANGES AND ROLE OF NOISE IN PLANKTONIC FORAMINIFERA IN THE MEDITERRANEAN SEA. **2005**, 05, L349-L355	55
1022	Consequences of the Cretaceous/Paleogene Mass Extinction for Marine Ecosystems. **2005**, 36, 295-317	113
1021	Geologic constraints on the macroevolutionary history of marine animals. **2005**, 102, 12326-31	213
1020	Local Underdetermination in Historical Science*. **2005**, 72, 209-230	49
1019	Defending the Earth Against Asteroids: The Case for a Global Response. **2005**, 13, 87-103	4
1018	Earth Impact Effects Program: A Web-based computer program for calculating the regional environmental consequences of a meteoroid impact on Earth. **2005**, 40, 817-840	257
1017	Applied Stratigraphy. **2005**,	1
1016	Chapter 3Modelling late devonian extinction hypotheses. **2005**, 20, 37-50	9

1015	A Scientific Impact Response Team for the Aftermath of Small Asteroid and Comet Impacts. **2005**, 13, 105-115		
1014	Hypervelocity collisions into continental crust composed of sediments and an underlying crystalline basement: comparing the Ries (~24 km) and Chicxulub (~180 km) impact craters. **2005**, 65, 1-46		52
1013	A tsunami deposit at the Cretaceous/Paleogene boundary in the Neuquń Basin of Argentina. *Cretaceous Research*, **2005**, 26, 283-297	1.8	35
1012	Search for traces of the late heavy bombardment on Earth: Results from high precision chromium isotopes. **2005**, 236, 28-40		48
1011	Giant meteoroid impacts can cause volcanism. **2005**, 239, 219-232		56
1010	Anomalous iridium enrichment at the Triassic–Jurassic boundary, Blomidon Formation, Fundy basin, Canada. **2005**, 240, 634-641		24
1009	Changes in the pelagic fine fraction carbonate sedimentation during the Cretaceous–Paleocene transition: contribution of the separation technique to the study of Bidart section. **2005**, 216, 119-137		54
1008	The Cretaceous–Palaeogene boundary succession at Stevns Klint, Denmark: Foraminifers and stable isotope stratigraphy. **2005**, 224, 6-26		39
1007	Nannofloral extinction and survivorship across the K/T boundary at Caravaca, southeastern Spain. **2005**, 224, 27-52		44
1006	Cretaceous/Paleogene boundary bathyal paleo-environments in the central North Pacific (DSDP Site 465), the Northwestern Atlantic (ODP Site 1049), the Gulf of Mexico and the Tethys: The benthic foraminiferal record. **2005**, 224, 53-82		50
1005	Interpreting bioevents: What exactly did happen to planktonic foraminifers across the Cretaceous–Tertiary boundary?. **2005**, 224, 291-310		11
1004	The evolutionary and ecological benefits of asteroid and comet impacts. **2005**, 20, 175-9		12
1003	Spinel-bearing spherules condensed from the Chicxulub impact-vapor plume. **2005**, 33, 293		40
1002	Origins of the genetic code: the escaped triplet theory. **2005**, 74, 179-98		120
1001	Late Maastrichtian and K/T paleoenvironment of the eastern Tethys (Israel): mineralogy, trace and platinum group elements, biostratigraphy and faunal turnovers. **2005**, 176, 37-55		17
1000	Impacts, volcanism and mass extinction: random coincidence or cause and effect?. **2005**, 52, 725-757		84
999	Extreme Events in Nature and Society. **2006**,		95
998	Impacts and the Early Evolution of Life. **2006**, 207-251		16

997	Complexity in Landscape Ecology. **2006**,	28
996	Extreme Events in the Geological Past. **2006**, 145-168	2
995	Ecosystem models on the evolutionary time scale: a review and perspective. **2006**, 10, 375-385	5
994	The record of impact processes on the early Earth: A review of the first 2.5 billion years. **2006**,	16
993	Dimensionless constants, cosmology, and other dark matters. **2006**, 73,	233
992	Mobile element analysis by secondary ion mass spectrometry (SIMS) of impactite matrix samples from the Yaxcopoil-1 drill core in the Chicxulub impact structure. **2006**, 41, 1929-1945	6
991	Luis Walter Alvarez: another "Mayo-trained" Nobel Laureate. **2006**, 81, 241-4	1
990	Geochemical identification of projectiles in impact rocks. **2006**, 41, 1721-1735	64
989	PHANEROZOIC BIODIVERSITY MASS EXTINCTIONS. **2006**, 34, 127-155	319
988	Guembelitria irregularis Bloom at the K-T Boundary: Morphological Abnormalities Induced by Impact-related Extreme Environmental Stress?. **2006**, 179-196	10
987	THREADS: A Life in Geochemistry. **2006**, 34, 1-35	3
986	The nature of the KT impactor. A 54Cr reappraisal. **2006**, 241, 780-788	69
985	Volatile fluxes during flood basalt eruptions and potential effects on the global environment: A Deccan perspective. **2006**, 248, 518-532	228
984	Chicxulub impact event is Cretaceous/Paleogene boundary in age: New micropaleontological evidence. **2006**, 249, 241-257	63
983	Platinum group elements and 187Os/188Os in a purported impact ejecta layer near the Eifelian□Givetian stage boundary, Middle Devonian. **2006**, 249, 162-172	12
982	Analyses of shocked quartz at the global K-P boundary indicate an origin from a single, high-angle, oblique impact at Chicxulub. **2006**, 251, 264-279	44
981	Rare earth element composition as evidence of the precursor material of Cretaceous□Tertiary boundary sediments at distal sections. **2006**, 232, 1-11	21
980	Evaluation of osmium isotopes and iridium as paleoflux tracers in pelagic carbonates. **2006**, 70, 3928-3942	23

979 Sea level changes revealed by cosmic dusts: A pilot study of the Upper Permian reefs in Guizhou, China. **2006**, 88, 431-435

978 Preliminary comparison of ancient bole beds and modern soils developed upon the Deccan volcanic basalts around Pune (India): Potential for palaeoenvironmental reconstruction. **2006**, 156-157, 189-199 29

977 The palaeoclimatology, palaeoecology and palaeoenvironmental analysis of mass extinction events. **2006**, 232, 190-213 199

976 IMPACTS AND MASS EXTINCTIONS REVISITED. **2006**, 21, 313-315 4

975 Asteroids. **2006**,

974 Extinction: K□ Mass Extinction. **2006**,

973 The UK Near Earth Object Information Centre (NEOIC). **2006**, 2, 471-476

972 In the public eye: Volcanology and climate change studies in the 20th century. **2006**, 37, 87-125 6

971 Impacts and Wildfires - An Analysis of the K-T Event. **2006**, 221-243 5

970 Asteroid and comet impacts: the ultimate environmental catastrophe. **2006**, 364, 2041-54 18

969 Dinosaurs and the Democratic Peace: Paleontological Lessons for Avoiding the Extinction of Theory in Political Science. **2006**, 7, 287-306 7

968 Development of marine biota in the Paleozoic in response to abiotic factors. **2006**, 46, 848-858 6

967 Physical limits of solar collectors in deflecting Earth-threatening asteroids. **2006**, 10, 256-263 27

966 Optimal deflection of NEOs en route of collision with the Earth. **2006**, 182, 482-488 25

965 Ionospheric and magnetospheric disturbances caused by impacts of small comets and asteriods. **2006**, 40, 57-67 7

964 KTB iron mineralogy at iridium deficient layers revealed by M□sbauer spectroscopy. **2006**, 166, 537-542

963 Effect of the intensity of stochastic disturbance on temporal diversity patterns□ simulation study in evolutionary time scale. **2006**, 196, 103-115 4

962 Intra-clade predation facilitates the evolution of larger body size. **2006**, 196, 533-539 5

961	Foraminiferal turnover across the Eocene□Oligocene transition at Fuente Caldera, southern Spain: No cause□effect relationship between meteorite impacts and extinctions. **2006**, 58, 270-286	19
960	CiteSpace II: Detecting and visualizing emerging trends and transient patterns in scientific literature. **2006**, 57, 359-377	1695
959	Comets and the Origin and Evolution of Life. **2006**, 1-28	4
958	Gamma-ray bursts and terrestrial planetary atmospheres. **2006**, 8, 120-120	14
957	Unravelling the Cretaceous-Paleogene (KT) Turnover, Evidence from Flora, Fauna and Geology. **2006**, 197-219	8
956	The history of tektites. **2006**, 256, 471-493	1
955	Earliest freshwater diatoms from the Deccan Intertrappean (Maastrichtian) sediments of India. **2006**, 52, 545-551	7
954	Biological Processes Associated with Impact Events. **2006**,	2
953	Early penguin fossils, plus mitochondrial genomes, calibrate avian evolution. **2006**, 23, 1144-55	195
952	Catastrophic bolide impacts on the Earth: Some estimates. **2006**, 74, 789-793	1
951	Tropical forests are both evolutionary cradles and museums of leaf beetle diversity. **2006**, 103, 10947-51	172
950	Organizations and Strategies in Astronomy Volume 6. **2006**,	2
949	Natural Fullerenes and Related Structures of Elemental Carbon. **2006**,	1
948	Astrobiologically interesting stars within 10 parsecs of the sun. **2006**, 6, 308-31	37
947	Near Earth Object Orbit Modification Using Gravitational Coupling. **2007**, 30, 870-873	29
946	Optimization of Interplanetary Trajectories for Impulsive and Continuous Asteroid Deflection. **2007**, 30, 401-408	38
945	A Late Campanian Sphenodontid Maxilla from Northern Patagonia. **2007**, 3581, 1	17
944	Reconstruction of the Chicxulub ejecta plume from its deposits in drill core Yaxcopoil-1. **2007**, 119, 1151-1167	22

943	Colliding Worlds: Asteroid Research and the Legitimization of War in Space. **2007**, 37, 499-531	35
942	Cenozoic mass extinctions in the deep sea: What perturbs the largest habitat on Earth?. **2007**,	63
941	Theory and Evidence in Comparative Politics and International Relations. **2007**,	10
940	The geochronology of large igneous provinces, terrestrial impact craters, and their relationship to mass extinctions on Earth. **2007**, 164, 923-936	33
939	Measurement of Iridium in the Fullerene-Rich Layer in Central Japan by the Neutron Activation Method. **2007**, 15, 127-133	1
938	DROUGHT AND THE MAYA COLLAPSE. **2007**, 18, 283-302	47
937	Impact melting in sedimentary target rocks: An assessment. **2007**, 1-18	12
936	Artificial neural networks in models of specialization, guild evolution and sympatric speciation. **2007**, 362, 431-40	5
935	Evolutionary catastrophes and the Goldilocks problem. **2007**, 6, 325-329	6
934	Evaluation of different models for the origin of the Siberian Traps. **2007**, 669-691	26
933	Impact stratigraphy: Old principle, new reality. **2007**, 147-178	5
932	Cretaceous Paleogene boundary Fish Clay at Hjerup (Stevns Klint, Denmark): trace metals in kerogen. **2007**, 178, 411-421	2
931	Megatsunami deposit in Cretaceous-Paleogene boundary interval of southeastern Missouri. **2007**, 189-198	6
930	Classifying Solid Planetary Bodies. **2007**,	
929	METEOR IMPACT HAZARDS AND SOME METEOR PHENOMENA. **2007**,	
928	Geochemical and Biological Consequences of Phytoplankton Evolution. **2007**, 405-430	15
927	XAFS Study of As in K-T Boundary Clays. **2007**,	6
926	Exotic amino acids across the K/T boundary tometary origin and relevance for species extinction*. **2007**, 6, 303-306	2

925	Uniquely extensive soft-sediment deformation in the Rhaetian of the UK: Evidence for earthquake or impact?. **2007**, 244, 407-423	53
924	Platinum group element anomalies and bioevents in the Triassic–Jurassic deep-sea sediments of Panthalassa. **2007**, 244, 391-406	41
923	Cretaceous–Paleogene boundary events. **2007**, 255, 1-3	1
922	The Chicxulub impact event and its environmental consequences at the Cretaceous–Tertiary boundary. **2007**, 255, 4-21	143
921	Selected plant microfossil records of the terminal Cretaceous event in terrestrial rocks, western North America. **2007**, 255, 22-34	16
920	Fourier analysis and the extinction of unionoid bivalves near the Cretaceous–Tertiary boundary of the Western Interior, USA: Pattern, causes, and ecological significance. **2007**, 255, 48-63	7
919	Cretaceous–Tertiary boundary problem on shallow carbonate platform: Carbon and oxygen excursions, biota and microfacies at the K/T boundary sections Dolenja Vas and Sopada in SW Slovenia, Adria CP. **2007**, 255, 64-76	14
918	Peritidal sedimentary depositional facies and carbon isotope variation across K/T boundary carbonates from NW Adriatic platform. **2007**, 255, 77-86	13
917	An expanded Cretaceous–Tertiary transition in a pelagic setting of the Southern Alps (central-western Tethys). **2007**, 255, 98-131	34
916	Calcareous nannofossil extinction and survivorship across the Cretaceous–Paleogene boundary at Walvis Ridge (ODP Hole 1262C, South Atlantic Ocean). **2007**, 255, 132-156	41
915	Recovery of the deep-sea floor after the Cretaceous–Paleogene boundary event: The benthic foraminiferal record in the Basque–Cantabrian basin and in South-eastern Spain. **2007**, 255, 181-194	19
914	Late Ordovician extinction of North American and British crinoids. **2007**, 21, 147-167	1
913	Lectures in Astrobiology. **2007**,	4
912	Main Factors of Hazards Due to Comets and Asteroids. **2008**, 1-89	
911	High-Velocity Impact Ejecta: Tektites and Martian Meteorites. **2008**, 267-289	3
910	Thermal Radiation and Fires After Impacts of Cosmic Objects. **2008**, 207-226	
909	Geologic Effects of Large Terrestrial Impact Crater Formation. **2008**, 163-205	1
908	Scientist as detective: Luis Alvarez and the pyramid burial chambers, the JFK assassination, and the end of the dinosaurs. **2007**, 75, 968-977	7

907	Carbon isotopic compositions of organic matter across continental Cretaceous–Tertiary (K–T) boundary sections: Implications for paleoenvironment after the K–T impact event. **2007**, 253, 226-238	31
906	Chromium isotopic studies of terrestrial impact craters: Identification of meteoritic components at Bosumtwi, Clearwater East, Lappajärvi, and Rochechouart. **2007**, 256, 534-546	46
905	40K–40Ar dating of the Main Deccan large igneous province: Further evidence of KTB age and short duration. **2007**, 263, 1-15	230
904	Platinum-group elements of the Meishan Permian–Triassic boundary section: Evidence for flood basaltic volcanism. **2007**, 246, 55-64	35
903	Goldschmidt Abstracts 2007- M. **2007**, 71, A607-A697	3
902	Impact-shock behavior of Mg- and Ca-sulfates and their hydrates. **2007**, 71, 4125-4133	22
901	Impact and extinction in remarkably complete Cretaceous-Tertiary boundary sections from Demerara Rise, tropical western North Atlantic. **2007**, 119, 101-115	58
900	Trace element concentrations in the Mexico-Belize ejecta layer: A link between the Chicxulub impact and the global Cretaceous-Paleogene boundary. **2007**, 42, 1871-1882	10
899	Magnetic characterization of Cretaceous-Tertiary boundary sediments. **2007**, 42, 1505-1527	7
898	Osmium, tungsten, and chromium isotopes in sediments and in Ni-rich spinel at the K-T boundary: Signature of a chondritic impactor. **2007**, 42, 1567-1580	23
897	Ernst Florens Friedrich Chladni (1756–1827) and the origins of modern meteorite research. **2007**, 42, B3-B68	7
896	Extraterrestrial chromite in latest Maastrichtian and Paleocene pelagic limestone at Gubbio, Italy: The flux of unmelted ordinary chondrites. **2007**, 42, 2099-2109	17
895	Platinum group elements provide no indication of a meteoritic component in ICDP cores from the Bosumtwi crater, Ghana. **2007**, 42, 731-741	10
894	Evidence for an extraterrestrial impact 12,900 years ago that contributed to the megafaunal extinctions and the Younger Dryas cooling. **2007**, 104, 16016-21	367
893	Revolutions in the Earth Sciences: Continental Drift, Impact and other Catastrophes. **2007**, 110, 1-46	13
892	Comet/Asteroid Impacts and Human Society. **2007**,	6
891	Faunal evidence for reduced productivity and uncoordinated recovery in Southern Hemisphere Cretaceous-Paleogene boundary sections. **2007**, 35, 227	37
890	Confidence intervals for pulsed mass extinction events. **2007**, 33, 324-336	27

889	Snake venomics of Bitis species reveals large intragenus venom toxin composition variation: application to taxonomy of congeneric taxa. **2007**, 6, 2732-45	93
888	Cortical Evolution as the Expression of a Program for Disproportionate Growth and the Proliferation of Areas. **2007**, 73-96	7
887	Effects of a large asteroid impact on ultra-violet radiation in the atmosphere. **2007**, 34, n/a-n/a	3
886	Thermo-mechanical adjustment after impacts during planetary growth. **2007**, 34,	45
885	Endobenthic Response through Mass-Extinction Episodes: Predictive Models and Observed Patterns. **2007**, 575-598	6
884	Part H, Brachiopoda (Revised), vol. 6, Complete Volume. **2007**,	2
883	Shock Experiments with Implications to Planetary Science. **2007**, 17, 334-340	
882	Past climate change. 67-112	
881	The eyes have it: A Problem-Based Learning Exercise in Molecular Evolution. **2007**, 35, 213-8	2
880	Ejecta range: A simulation study of terrestrial impacts. **2007**, 55, 900-914	2
879	An asteroid breakup 160 Myr ago as the probable source of the K/T impactor. **2007**, 449, 48-53	119
878	The End-Permian mass extinction how bad did it get?. **2007**, 5, 303-309	89
877	THE HISTORY OF THE LAWRENCE BERKELEY NATIONAL LABORATORY INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS PROGRAMME FOR ARCHAEOLOGICAL AND GEOLOGICAL MATERIALS. **2007** , 49, 201-214	18
876	The nonmarine Triassic urassic boundary in the Newark Supergroup of eastern North America. **2007**, 84, 1-20	54
875	Extinction and recovery patterns of the vegetation across the Cretaceous Palaeogene boundary a tool for unravelling the causes of the end-Permian mass-extinction. **2007**, 144, 99-112	76
874	The first data on helium isotopy in a transitional clay layer at the cretaceous-paleogene boundary (Gams, Eastern Alps). **2007**, 43, 766-772	6
873	The Geochemistry and Cosmochemistry of Impacts. **2007**, 1-52	12
872	Explosive bolide impact designates the Cambrian Explosion, terminating the Cambrian event in New York. **2007**, 22, 178-185	1

871	On Potential Spectroscopic Detection of Microfossils on Mars. **2007**, 101, 127-140	3
870	Iridium in the Bering Sea and Arctic Ocean studied by neutron activation analysis. **2007**, 271, 125-128	2
869	Platinum group elements and gold in ferromanganese crusts from Afanasiy-Nikitin seamount, equatorial Indian Ocean: Sources and fractionation. **2007**, 116, 3-13	38
868	Impact cratering Fundamental process in geoscience and planetary science. **2007**, 116, 81-98	22
867	Paleontological Patterns, Macroecological Dynamics and the Evolutionary Process. **2007**, 34, 28-48	39
866	Tsunami deposits in the geological record. **2007**, 200, 166-183	233
865	Astrobiological phase transition: towards resolution of Fermi's paradox. **2008**, 38, 535-47	26
864	Mass extinctions and ocean acidification: biological constraints on geological dilemmas. **2008**, 27, 459-472	131
863	Explaining the Past in the Geosciences. **2008**, 36, 495-507	18
862	Endolithic fungi: A possible killer for the mass extinction of Cretaceous dinosaurs. **2008**, 51, 801-807	6
861	Carbon isotope composition and correlation across the Cambrian-Ordovician boundary in Kalpin Region of the Tarim Basin, China. **2008**, 51, 1317-1329	25
860	Devonian Frasnian-Famennian transitional event deposits of Guangxi, South China and their possible tsunami origin. **2008**, 51, 1570-1580	26
859	The state and the future of the Earth, planetary and environmental sciences, especially in Italy. **2008**, 19, 57-73	
858	Molecular Phylogenetics and Biogeography of the Caribbean-Centered Croton Subgenus Moacroton (Euphorbiaceae s.s.). **2008**, 74, 132-165	50
857	Auf der Suche nach dem großen Knall. Massensterben von Dinosauriern & Co. am Ende der Kreidezeit. **2008**, 38, 256-263	
856	DNA evidence for a Paleocene origin of the Alcidae (Aves: Charadriiformes) in the Pacific and multiple dispersals across northern oceans. **2008**, 46, 430-45	41
855	Initial condensate composition during asteroid impacts. **2008**, 196, 539-551	3
854	Platinum-Group Elements in Cosmochemistry. **2008**, 4, 233-238	36

853	Noble metals in landscapes of the Amur-Zeya Plain in Priamurye. **2008**, 423, 1250-1252	1
852	Mammal-eating killer whales, industrial whaling, and the sequential megafaunal collapse in the North Pacific Ocean: A reply to critics of Springer et al. 2003. **2008**, 24, 414-442	38
851	Evolution of the Mesozoic oceanic biota: Response to abiotic factors. **2008**, 48, 538-553	2
850	Asteroid breakup linked to the Great Ordovician Biodiversification Event. **2008**, 1, 49-53	119
849	Importance of pre-impact crustal structure for the asymmetry of the Chicxulub impact crater. **2008**, 1, 131-135	123
848	Critical Biodiversity. **2008**, 12, 521-532	0
847	Insect-damaged fossil leaves record food web response to ancient climate change and extinction. **2008**, 178, 486-502	56
846	Consilience in fisheries science. **2008**, 9, 316-327	9
845	The Neoproterozoic assembly of Gondwana and its relationship to the Ediacaran–Cambrian radiation. **2008**, 14, 5-21	380
844	Design, science and naturalism. **2008**, 90, 49-70	4
843	Permian, rifting related fayalite syenite in the Panxi region, SW China. **2008**, 101, 54-73	44
842	Press-pulse: a general theory of mass extinction?. **2008**, 34, 456-471	88
841	Determination of rapid Deccan eruptions across the Cretaceous-Tertiary boundary using paleomagnetic secular variation: Results from a 1200-m-thick section in the Mahabaleshwar escarpment. **2008**, 113,	157
840	Mass Extinction. **2008**,	1
839	TSUNAMIS AND TSUNAMI SEDIMENTOLOGY. **2008**, 9-49	20
838	From Fossils to Astrobiology. **2008**,	4
837	Wildfire and abrupt ecosystem disruption on California's Northern Channel Islands at the Ållerød–Younger Dryas boundary (13.0–12.9 ka). **2008**, 27, 2530-2545	112
836	Special publication. **2008**, 129, 408-412	

835	Transient ocean warming and shifts in carbon reservoirs during the early Danian. **2008**, 265, 600-615		72
834	Seawater osmium isotope evidence for a middle Miocene flood basalt event in ferromanganese crust records. **2008**, 273, 175-183		25
833	High-pressure phase of natural fullerene C60 in iridium-rich Cretaceous–Tertiary boundary layers of Deccan intertrappean deposits, Anjar, Kutch, India. **2008**, 72, 978-987		19
832	Lunar rock-rain: Diverse silicate impact-vapor condensates in an Apollo-14 regolith breccia. **2008**, 72, 3562-3585		27
831	Siderophile metal fallout to Greenland from the 1991 winter eruption of Hekla (Iceland) and during the global atmospheric perturbation of Pinatubo. **2008**, 255, 78-86		24
830	Trace element compositions of iridium enriched illite-smectite assemblages from a K/Pg boundary section in the Anjar area of the Deccan volcanic province: palaeoenvironmental implications. *Cretaceous Research*, **2008**, 29, 592-602	1.8	15
829	Impact ejecta and carbonate sequence in the eastern sector of the Chicxulub crater. **2008**, 340, 801-810		24
828	Milestones in the evolution of the atmosphere with reference to climate change. **2008**, 55, 125-139		17
827	Biosignatures in ancient rocks: a summary of discussions at a field workshop on biosignatures in ancient rocks. **2008**, 8, 883-95		17
826	Adjusting global extinction rates to account for taxonomic susceptibility. **2008**, 34, 434-455		19
825	Determining chondritic impactor size from the marine osmium isotope record. *Science*, **2008**, 320, 214-8	33.3	52
824	Risks and Disasters. **2008**, 73-266		
823	The Lake St. Martin bolide has a big impact on groundwater fluoride concentrations. **2008**, 36, 115		13
822	Mass Extinction - a general view. **2008**, 1-4		1
821	K-Pg mass extinction. **2008**, 129-131		2
820	Catalogue of Risks. **2008**,		48
819	Geochemistry. Are volcanic gases serial killers?. *Science*, **2008**, 319, 1628-9	33.3	5
818	A scale of greatness and causal classification of mass extinctions: implications for mechanisms. **2008**, 105, 13736-40		8

817	Cretaceous-Paleogene boundary Fish Clay at Hĵerup (Stevns Klint, Denmark): Zn, Pb and REE in kerogen. **2008**, 73, 453-461		2
816	Do Impacts Really Cause Most Mass Extinctions?. **2009**, 409-423		
815	Asteroid Threat? The Problem of Planetary Defence. **2008**, 50, 141-156		11
814	Comment on "Determining chondritic impactor size from the marine osmium isotope record". *Science*, **2008**, 321, 1158; author reply 1158	33.3	2
813	The taming of the skew: estimating proper confidence intervals for divergence dates. **2008**, 57, 317-28		49
812	High-power laser ablation and planetary events. **2008**, 163, 395-400		2
811	Significance of Provenance Ages from the Chiapas Massif Complex (Southeastern Mexico): Redefining the Paleozoic Basement of the Maya Block and Its Evolution in a Peri-Gondwanan Realm. **2008**, 116, 619-639		67
810	Chemostratigraphy. **2008**, 42, 145-179		87
809	TSUNAMIITESCONCEPTUAL DESCRIPTIONS AND A POSSIBLE CASE AT THE CRETACEOUSTERTIARY BOUNDARY IN THE PERNAMBUCO BASIN, NORTHEASTERN BRAZIL. **2008**, 217-250		1
808	DEEP-SEA TSUNAMI DEPOSITS IN THE PROTO-CARIBBEAN SEA AT THE CRETACEOUS/TERTIARY BOUNDARY. **2008**, 251-275		0
807	Case Study 2. **2008**, 77-109		
806	Macrostratigraphy and Its Promise for Paleobiology. **2008**, 14, 205-231		8
805	Beyond the Big Five: Extinctions as Experiments in the History of Life. **2008**, 14, 249-270		3
804	The CretaceousTertiary extinction: the frill is gone. 320-344		
803	Assessing Panspermia Hypothesis by Microorganisms Collected from The High Altitude Atmosphere. **2009**, 23, 151-163		14
802	The Role of Space Weather and Cosmic Ray Effects in Climate Change. **2009**, 43-76		6
801	Geochemical evidence for combustion of hydrocarbons during the K-T impact event. **2009**, 106, 4112-7		37
800	Climate changes caused by degassing of sediments during the emplacement of large igneous provinces. **2009**, 37, 323-326		210

799	Species Richness. **2009**,		29
798	Asteroid Diversion Using Long Tether and Ballast. **2009**, 46, 645-661		19
797	Fermi's paradox: The last challenge for copernicanism?. **2009**, 1-20		32
796	Experimental evidence for the global acidification of surface ocean at the CretaceousPalaeogene boundary: the biogenic calcite-poor spherule layers. **2009**, 8, 193-206		6
795	How Quantification Persuades When It Persuades. **2009**, 4, 132-147		7
794	Absence of geochemical evidence for an impact event at the B[ling-Aller[d/Younger Dryas transition. **2009**, 106, 21505-10		55
793	Plants and the K□ Boundary. **2009**, 103, v-vi		2
792	Why did the dinosaurs become extinct? Could cholecalciferol (vitamin D) deficiency be the answer?. **2019**, 8, e9		
791	40Ar-39Ar step heating ages of North American tektites and of impact melt rock samples from the Chesapeake Bay impact structure. **2019**, 255, 289-308		6
790	From Stars to Brains: Milestones in the Planetary Evolution of Life and Intelligence. **2019**,		3
789	Simplicity, one-shot hypotheses and paleobiological explanation. **2019**, 41, 10		8
788	In search of historical roots of the meteorite impact theory: Franz von Paula Gruithuisen as the first proponent of an impact cratering model for the Moon in the 1820s. **2019**, 54, 2600-2630		1
787	A seismically induced onshore surge deposit at the KPg boundary, North Dakota. **2019**, 116, 8190-8199		47
786	Hydrocode simulations of asteroid airbursts and constraints for Tunguska. **2019**, 327, 36-47		12
785	The CretaceousPaleogene (K/Pg) boundary in the Dababiya Borehole, southern Egypt: An organic-walled dinoflagellate cyst approach. *Cretaceous Research*, **2019**, 98, 230-249	1.8	11
784	Near-Earth asteroid 2012 TC4 observing campaign: Results from a global planetary defense exercise. **2019**, 326, 133-150		6
783	Between Gilbert and Barringer: Joseph A. Munk as Unknown Pioneer of the Meteorite Model and Geotourist Exploitation of Coon Mountain (Arizona). **2019**, 127, 119-135		
782	The oldest known co-occurrence of dinosaurs and their closest relatives: A new lagerpetid from a Carnian (Upper Triassic) bed of Brazil with implications for dinosauromorph biostratigraphy, early diversification and biogeography. **2019**, 91, 302-319		16

781	Comparative morphology of the primate tongue. **2019**, 223, 19-31		7
780	The planet nine hypothesis. **2019**, 805, 1-53		80
779	An obligation to colonize outer space. **2019**, 110, 38-40		7
778	Anthropocene Chemostratigraphy. **2019**, 156-199		
777	The eruptive tempo of Deccan volcanism in relation to the Cretaceous-Paleogene boundary. *Science*, **2019**, 363, 866-870	33.3	166
776	Deciphering mass extinction triggers. *Science*, **2019**, 363, 815-816	33.3	9
775	Anticipation, Agency and Complexity. **2019**,		3
774	XAFS study of Sb and As in Cretaceous–Tertiary boundary sediments: an index of soiling of the global environment with dust and ashes from impact ejecta falls. **2019**, 114, 224-230		1
773	Constructing a time scale of biotic recovery across the Cretaceous–Paleogene boundary, Corral Bluffs, Denver Basin, Colorado, U.S.A.. **2019**, 54, 133-153		7
772	New records of theropods from the latest Cretaceous of New Jersey and the Maastrichtian Appalachian fauna. **2019**, 6, 191206		4
771	A Miocene impact ejecta layer in the pelagic Pacific Ocean. *Scientific Reports*, **2019**, 9, 16111	4.9	5
770	The Redesigned Earth. **2019**,		0
769	Cretaceous–Paleogene Boundary in the Sequences of the Northeastern Caucasus, Dagestan: Sedimentology, Geochemistry, and Biota. **2019**, 54, 429-446		0
768	The Unfinished Synthesis?: Paleontology and Evolutionary Biology in the 20th Century. **2019**, 52, 687-703		4
767	Fate of the Tree of Life. **2019**, 117-150		
766	Multifidelity Design of Low-Thrust Resonant Captures for Near-Earth Asteroids. **2019**, 42, 335-346		1
765	Flood Basalts and Mass Extinctions. **2019**, 47, 275-303		57
764	Geochemical characteristics of newly discovered Elongatoolithidae eggs from the Upper Cretaceous of Jiangxi Province, southern China: Palaeoenvironmental and palaeoclimatic inferences. *Cretaceous Research*, **2019**, 99, 352-364	1.8	3

763	Chronostratigraphic synthesis of the latest Cretaceous dinosaur turnover in south-western Europe. **2019**, 191, 168-189		15
762	The mass impacts on chemosynthetic primary producers: potential implications on anammox communities and their consequences. **2019**, 18, 440-444		1
761	Impact cratering: The South American record—Part 2. **2019**, 79, 191-220		2
760	Faunal elements from the Deccan volcano-sedimentary sequences of India: A reappraisal of biostratigraphic, palaeoecologic, and palaeobiogeographic aspects. **2019**, 54, 2797-2828		17
759	Archean Asteroid Impacts on Earth. **2019**, 169-185		0
758	Environmental controls on calcareous nannoplankton response to the Cretaceous/Paleogene mass extinction in the Tethys realm. **2019**, 515, 134-142		4
757	Information From Isotopes. **2020**, 225-248		
756	Exchange of material between solar systems by random stellar encounters. **2020**, 19, 43-48		3
755	The Maastrichtian-Danian in the SW Zagros Fold-Thrust Belt (S. Iran): An Integration of Planktonic Foraminiferal Biostratigraphy and Gamma-Ray Spectrometry. **2020**, 94, 1339-1363		1
754	Deposition and age of Chicxulub impact spherules on Gorgonilla Island, Colombia. **2020**, 132, 215-232		
753	Palaeohydrology. **2020**,		2
752	Noah's Flood—Probing an Ancient Narrative Using Geoscience. **2020**, 135-151		2
751	Dinoflagellate cyst evidence for the age, palaeoenvironment and paleoclimate of a new Cretaceous–Paleogene (K/Pg) boundary section at the Bou Angueur syncline, Middle Atlas, Morocco. *Cretaceous Research*, **2020**, 106, 104219	1.8	14
750	Past, present, and future mass extinctions. **2020**, 162, 103678		9
749	Genetic Contribution of Paleopolyploidy to Adaptive Evolution in Angiosperms. **2020**, 13, 59-71		55
748	Magnetostratigraphy of the Upper Cretaceous and Lower Paleocene terrestrial sequence, Jiaolai Basin, eastern China. **2020**, 538, 109451		3
747	A synthesis of the sedimentary evolution of the Demerara Plateau (Central Atlantic Ocean) from the late Albian to the Holocene. **2020**, 114, 104195		6
746	Earth's Impact Events Through Geologic Time: A List of Recommended Ages for Terrestrial Impact Structures and Deposits. **2020**, 20, 91-141		51

745	The Stratigraphy of Mass Extinctions and Recoveries. **2020**, 48, 75-97		14
744	Effect of Deccan lava flows on the sedimentological evolution of Gurmatkal intertrappeans Karnataka, Southern India. **2020**, 55, 4681-4690		1
743	Microscale trace-element distribution across the Cretaceous/Palaeogene ejecta layer at the Agost section: Constraining the recovery of pre-impact conditions. **2020**, 533, 119431		2
742	Type-Maastrichtian gastropod faunas show rapid ecosystem recovery following the Cretaceous–Palaeogene boundary catastrophe. *Palaeontology*, **2020**, 63, 349-367	2.9	4
741	"Winter Is Coming": How did Polyploid Plants Survive?. **2020**, 13, 4-5		1
740	Relationship between impact-crater size and severity of related extinction episodes. **2020**, 201, 102990		10
739	Chondrichthyans from the Lower Clayton Limestone Unit of the Midway Group (Paleocene) near Malvern, Arkansas, USA, with comments on the K/Pg boundary. **2020**, 94, 561-593		5
738	Mercury linked to Deccan Traps volcanism, climate change and the end-Cretaceous mass extinction. **2020**, 194, 103312		24
737	Organic matter from the Chicxulub crater exacerbated the K-Pg impact winter. **2020**, 117, 25327-25334		16
736	Characterization of shocked quartz grains from Chicxulub peak ring granites and shock pressure estimates. **2020**, 55, 2206-2223		9
735	Cretaceous–Paleogene plant extinction and recovery in Patagonia. **2020**, 46, 445-469		13
734	Widespread silicic and alkaline magmatism synchronous with the Deccan Traps flood basalts, India. **2020**, 552, 116616		9
733	How Special Is the Solar System?. **2020**, 412-457		
732	Legal Education and Legal Traditions: Selected Essays. **2020**,		
731	Advances in the study of mega-tsunamis in the geological record. **2020**, 210, 103381		5
730	Asteroid shower on the Earth-Moon system immediately before the Cryogenian period revealed by KAGUYA. **2020**, 11, 3453		10
729	Rapid macrobenthic diversification and stabilization after the end-Cretaceous mass extinction event. **2020**, 48, 1048-1052		6
728	The first remains of vertebrates from the Paleocene Lisama formation, Middle Magdalena Valley Basin of Colombia. **2020**, 103, 102745		

727	Paleozoic-Mesozoic Eustatic Changes and Mass Extinctions: New Insights from Event Interpretation. **2020**, 10,	2
726	The Habitat of the Nascent Chicxulub Crater. **2020**, 1, e2020AV000208	7
725	Modelling the Present Global Terrestrial Climatic Response Due to a Chicxulub-Type Asteroid Impact. **2020**, 11, 747	
724	Volcanic origin for Younger Dryas geochemical anomalies ca. 12,900 cal B.P. **2020**, 6, eaax8587	7
723	High-resolution microstructural and compositional analyses of shock deformed apatite from the peak ring of the Chicxulub impact crater. **2020**, 55,	6
722	A brief review on the natural history, venomics and the medical importance of bushmaster (pit viper snakes. **2020**, 7, 100053	3
721	The Deccan Volcanic Province (DVP), India: A Review. **2020**, 96, 111-147	5
720	Low-thrust trajectory design in low-energy regimes using variational equations. **2020**, 66, 2215-2231	0
719	Brazilian Deep-Sea Biodiversity. **2020**,	1
718	Laboratory examination of the physical properties of ordinary chondrites. **2020**, 55, 2007-2020	2
717	Identifying Gaps in the Investigation of the Vredefort Granophyre Dikes: A Systematic Literature Review. **2020**, 10, 306	1
716	Cretaceous/Palaeogene boundary transition induced lattice defects in illite and kaolinite associated with the Um-Sohryngkew river section, Meghalaya, India. **2020**, 5, 202-222	2
715	Index. **2020**, 210-212	
714	Time Depth. **2020**, 7-36	
713	Time Travelling Pits and Migrant Rocks. **2020**, 37-56	
712	Excluding Water. **2020**, 57-77	
711	Magnetic Imprisonment of Dusty Pinballs by a Supernova Remnant. **2020**, 894, 109	8
710	The Problem with Presentism. **2020**, 78-105	

709	Geodynamic Evolution of the Indian Shield: Geophysical Aspects. **2020**,		8
708	The Solar Wind Prevents Reaccretion of Debris after Mercury's Giant Impact. **2020**, 1, 7		4
707	Highly Effective Kinetic Impact Design for Asteroid Deflection Missions Exploiting Impact-Geometry Maps. **2020**, 43, 1082-1098		2
706	Shocked titanite records Chicxulub hydrothermal alteration and impact age. **2020**, 281, 12-30		10
705	Maastrichtian Palynoflora from Deccan Volcanic Associated Sediments of Mahurzari, Nagpur District, Maharashtra: Age and Paleoenvironment with Comments on Megaflora. **2020**, 95, 475-482		4
704	Evolutionary contingency as non-trivial objective probability: Biological evitability and evolutionary trajectories. **2020**, 81, 101246		3
703	UV-B radiation was the Devonian-Carboniferous boundary terrestrial extinction kill mechanism. **2020**, 6, eaba0768		29
702	Wasteland. **2020**, 172-189		
701	Deflection driven evolution of asteroid impact risk under large uncertainties. **2020**, 176, 276-286		2
700	Electric discharge evidence found in a new class of material in the Chicxulub ejecta. *Scientific Reports*, **2020**, 10, 9035	4.9	5
699	Geology and Biography. **2020**, 129-152		
698	Validating the New Paradigm for Extinction: Overcoming 200 Years of Historical Neglect, Philosophical Misconception, and Inadequate Language. **2020**, 95, 109-124		1
697	The evolution of complex life and the stabilization of the Earth system. **2020**, 10, 20190106		6
696	Evolutionary Traits that Enable Scleractinian Corals to Survive Mass Extinction Events. *Scientific Reports*, **2020**, 10, 3903	4.9	12
695	Two-step extinction of Late Cretaceous marine vertebrates in northern Gulf of Mexico prolonged biodiversity loss prior to the Chicxulub impact. *Scientific Reports*, **2020**, 10, 4169	4.9	3
694	Stratigraphy of the Paleocene continental sedimentary succession of the northern Pyrenean basin (Corbières, southern France) using δ13Corg isotopes. **2020**, 177, 752-765		3
693	Global K-Pg Layer Deposited From a Dust Cloud. **2020**, 47, e2019GL086562		13
692	Superconductivity found in meteorites. **2020**, 117, 7645-7649		18

691	Topological Climate Change. **2020**, 30, 2030005		2
690	References. **2020**, 190-209		
689	Asteroid impact, not volcanism, caused the end-Cretaceous dinosaur extinction. **2020**, 117, 17084-17093		48
688	Unawareness and Theorizing in Modern Geology: Two Examples Based on Citation Analysis. **2020**, 1, 1-14		3
687	The micrometeorite flux to Earth during the earliest Paleogene reconstructed in the Bottaccione section (Umbrian Apennines), Italy. **2020**, 55, 1615-1628		1
686	Platinum-group elements link the end-Triassic mass extinction and the Central Atlantic Magmatic Province. *Scientific Reports*, **2020**, 10, 3482	4.9	8
685	Causes and Climatic Consequences of the Impact Winter at the Cretaceous-Paleogene Boundary. **2020**, 47, e60121		13
684	IMPACT RESILIENCE: ECOLOGICAL RECOVERY OF A CARBONATE FACTORY IN THE WAKE OF THE LATE DEVONIAN IMPACT EVENT. **2020**, 35, 12-21		
683	On impact and volcanism across the Cretaceous-Paleogene boundary. *Science*, **2020**, 367, 266-272	33.3	95
682	Spatial U-Pb age distribution in shock-recrystallized zircon □A case study from the Rochechouart impact structure, France. **2020**, 273, 313-330		7
681	Enrichment of chalcophile elements in seawater accompanying the end-Cretaceous impact event. **2020**, 132, 2055-2066		2
680	Dynamic of a lacustrine sedimentary system during late rifting at the Cretaceous□Palaeocene transition: Example of the Yacoraite Formation, Salta Basin, Argentina. **2020**, 6, 490-523		4
679	Deep-Time Demographic Inference Suggests Ecological Release as Driver of Neoavian Adaptive Radiation. **2020**, 12, 164		7
678	Campanian to Danian dinoflagellate cyst assemblages from the southwestern Tethyan margin (Tattofte section, western External Rif, Morocco): Biostratigraphic and paleobiogeographic interpretations. **2020**, 279, 104225		8
677	Robustness of Gaian feedbacks to climate perturbations. **2020**, 492, 2572-2577		3
676	Emission spectra of a simulated Chicxulub impact-vapor plume at the Cretaceous□Paleogene boundary. **2020**, 346, 113813		2
675	Euselachian diversity through the uppermost Cretaceous Hell Creek Formation of Garfield County, Montana, USA, with implications for the Cretaceous-Paleogene mass extinction in freshwater environments. *Cretaceous Research*, **2020**, 113, 104483	1.8	3
674	U-Pb zircon age constraints on the earliest eruptions of the Deccan Large Igneous Province, Malwa Plateau, India. **2020**, 540, 116249		17

673	The Maastrichtian–Danian transition in the northern Farafra Oasis, Western Desert (Egypt): Implications from foraminiferal paleobathymetry and paleoenvironmental reconstructions. **2020**, 168, 103853	2
672	Volcanism and Mass Extinction. **2021**, 596-606	2
671	Accounting for violent conflict risk in planetary defense decisions. **2021**, 178, 15-23	0
670	Oil shales from the K-Pg boundary interval of Jordan – Climate controlled archives of surface and bottom water conditions in a shelf setting. **2021**, 123, 104724	2
669	Changes in terrestrial ecosystems across the Cretaceous-Paleogene boundary in western Canada inferred from plant wax lipid distributions and isotopic measurements. **2021**, 562, 110081	2
668	Palynology from ground zero of the Chicxulub impact, southern Gulf of Mexico. **2021**, 45, 283-299	2
667	Big 5 Mass Extinctions. **2021**, 603-616	4
666	A History of Thinking About Human Extinction: Is It Possible? How Could It Happen? How Probable Might It Be?. *SSRN Electronic Journal*,	1
665	A 100-Million-Year Gap in the Knowledge of the Evolutionary History of Bromeliaceae: A Brief Review of Fossil Records. **2021**, 132, 20-27	0
664	Platinum Group Element Traces of CAMP Volcanism Associated With Low-Latitude Environmental and Biological Disruptions. **2021**, 263-304	
663	Stable isotope and chemical stratigraphy of the Eocene Tambaba Formation: correlations with the Paleocene–Eocene Thermal Maximum event. SP507-2020-35	1
662	[illegible] **2021**, 15-24	1
661	A Capital Idea. **2021**, 3-21	
660	Virus, plankton and evolution. **2021**, 110, 757-758	
659	The extinction and survival of sharks across the end-Cretaceous mass extinction.	
658	First Lessons in Global Change. **2021**, 7-45	
657	Cephalopods from the Cretaceous-Paleogene (K-Pg) Boundary Interval on the Brazos River, Texas, and Extinction of the Ammonites. **2021**, 2020,	2
656	Tsunamiites—conceptual descriptions and a possible example at the Cretaceous–Paleogene boundary in the Pernambuco Basin, Northeastern Brazil. **2021**, 263-303	

655	Cobaltgruppe: Elemente der neunten Nebengruppe. **2021**, 703-739		
654	Foraminifera: Witness of the evolving Earth. **2021**, 281-319		
653	Using a Wicked Problem for Inquiry-Based Fieldwork in High School Geology: Addressing Climate Change and Mass Extinction Events. **2021**, 167-188		1
652	Breakup of a long-period comet as the origin of the dinosaur extinction. *Scientific Reports*, **2021**, 11, 3803	4.9	4
651	INCORPORATING INFORMATION ON VARYING SEDIMENTATION RATES INTO PALEONTOLOGICAL ANALYSES. **2021**, 36, 53-67		1
650	Globally distributed iridium layer preserved within the Chicxulub impact structure. **2021**, 7,		17
649	A Two-stage Deep Learning Detection Classifier for the ATLAS Asteroid Survey. **2021**, 133, 034501		1
648	Significance of biozone correlation in understanding the Cretaceous-Paleogene transition and its associated turbidite deposits in the Northern Delta, Niger Delta Basin. **2021**, 6, 189-199		
647	Release of Matter into the Atmosphere During the Fall of Ten-Kilometer Asteroids into the Ocean. **2021**, 55, 97-105		0
646	Cooperative Evolution: Reclaiming Darwin's Vision. **2021**,		
645	Climate Variability Indices: A Guided Tour. **2021**, 11, 128		2
644	Ocean resurge-induced impact melt dynamics on the peak-ring of the Chicxulub impact structure, Mexico. **2021**, 110, 2619-2636		3
643	Asteroid impact, Schumann resonances and the end of dinosaurs. **2021**, 393, 127156		
642	The oxygen cycle and a habitable Earth. **2021**, 64, 511-528		6
641	Renormalising climate intervention. **2021**, 63-100		
640	An evaluation of Deccan Traps eruption rates using geochronologic data. **2021**, 3, 181-198		12
639	Phanerozoic paleotemperatures: The earth's changing climate during the last 540 million years. **2021**, 215, 103503		62
638	Evidence from South Africa for a protracted end-Permian extinction on land. **2021**, 118,		19

637	Calcareous microfossils and paleoenvironmental changes across the Cretaceous-Paleogene (K-Pg) boundary at the Cerro Azul Section, Neuquh Basin, Argentina. **2021**, 567, 110217		1
636	Evidence of Carboniferous arc magmatism preserved in the Chicxulub impact structure.		7
635	Evolution and extinction can occur rapidly: a modeling approach. **2021**, 9, e11130		0
634	The Tetrapod Fossil Record from the Uppermost Maastrichtian of the Ibero-Armorican Island: An Integrative Review Based on the Outcrops of the Western Tremp Syncline (Aragf, Huesca Province, NE Spain). **2021**, 11, 162		1
633	Study on ballistic kinetic impactor mission design and evaluation using impact-geometry maps. **2021**, 181, 336-351		
632	The Neo-Gouldian Argument for Evolutionary Contingency: Mass Extinctions.		1
631	The EURONEAR Lightcurve Survey of Near Earth Asteroids eide Observatory, Tenerife, 2015. **2021**, 125, 1		0
630	Chicxulub museum, geosciences in Mexico, outreach and science communication built from the crater up. **2021**, 4, 267-280		
629	Evolution of kaiA, a key circadian gene of cyanobacteria. *Scientific Reports*, **2021**, 11, 9995	4.9	4
628	Resolving the age of the Puchezh-Katunki impact structure (Russia) against alteration and inherited 40Ar* No link with extinctions. **2021**, 301, 116-140		1
627	Minor changes in biomarker assemblages in the aftermath of the Cretaceous-Paleogene mass extinction event at the Agost distal section (Spain). **2021**, 569, 110310		2
626	A teoria da evolu o humana em outras esp cies: o caso do Dinosauroid 05-25		
625	A Pronounced Spike in Ocean Productivity Triggered by the Chicxulub Impact. **2021**, 48, e2020GL092260		1
624	Dinosaur biodiversity declined well before the asteroid impact, influenced by ecological and environmental pressures. **2021**, 12, 3833		8
623	Sedimentation across the Paraburdoo spherule layer: Implications for the Neoarchean Earth system. **2021**,		
622	Connecting the Deep Earth and the Atmosphere. **2021**, 413-453		8
621	A Late Cretaceous true polar wander oscillation. **2021**, 12, 3629		4
620	Origins of the asteroid-impact hypothesis. **2021**, 74, 12-12		

619	Micro□-ray fluorescence (μXRF) analysis of proximal impactites: High-resolution element mapping, digital image analysis, and quantifications. **2021**,	2
618	□t Kretase Ya□□Karababa Formasyonu Fosfat Olu□□mlarının Mineralojik, Jeokimyasal □ellikleri Ve K□eni (Mardin-Mazıdağı□	
617	The Balance of Nature: A Global Marine Perspective. **2021**,	2
616	The Chicxulub impactor: comet or asteroid?. **2021**, 62, 3.34-3.37	1
615	The Boltysh impact structure: An early Danian impact event during recovery from the K-Pg mass extinction. **2021**, 7,	2
614	Major biological events and fossil energy formation: On the development of energy science under the earth system framework. **2021**, 48, 581-594	4
613	A different perspective on the forensic science crisis. **2021**, 323, 110779	5
612	Petrographic and chemical studies of the Cretaceous-Paleogene boundary sequence at El Guayal, Tabasco, Mexico: Implications for ejecta plume evolution from the Chicxulub impact crater. **2021**,	
611	Milankovitch cyclicity in the latest Cretaceous of the Gulf Coastal Plain, USA. **2021**, 421, 105954	0
610	Pteridophytes as primary colonisers after catastrophic events through geological time and in recent history. 1	1
609	Fingerprinting the Cretaceous-Paleogene boundary impact with Zn isotopes. **2021**, 12, 4128	1
608	Element and isotope compositions of newly discovered dinosaur eggs and geochemical environmental instructions from the early Late Cretaceous of Xiuning Basin, China. 1-10	0
607	Geological World Heritage: a revised global framework for the application of criterion (viii) of the World Heritage Convention.	1
606	Formation of the crater suevite sequence from the Chicxulub peak ring: A petrographic, geochemical, and sedimentological characterization.	8
605	Extinction: End-Triassic Mass Extinction. 2, 1-11	0
604	Sedimentary record of Upper Triassic impact in the Lagonegro Basin, southern Italy: Insights from highly siderophile elements and Re-Os isotope stratigraphy across the Norian/Rhaetian boundary. **2021**, 586, 120506	4
603	High-precision U-Pb zircon geochronology of the Miocene Bisciaro Formation, Contessa Section, Italy: A case study for requisite radioisotopic calibration of bio- and magnetostratigraphy. **2021**, 576, 110487	
602	The Ravenscrag Butte flora: Paleoclimate and paleoecology of an early Paleocene (Danian) warm-temperate deciduous forest near the vanishing inland Cannonball Seaway. **2021**, 576, 110488	2

601	Argumentation and scientific consensus-building: using the nonfiction narrative to generate contextual understanding. 1-10		
600	Multiproxy analysis of paleoenvironmental, paleoclimatic and paleoceanographic changes during the early Danian in the Caravaca section (Spain). **2021**, 576, 110513		2
599	Clay mineralogical evidence for mid-latitude terrestrial climate change from the latest Cretaceous through the earliest Paleogene in the Songliao Basin, NE China. *Cretaceous Research*, **2021**, 124, 104827	1.8	5
598	Paleoenvironmental and paleoclimatic changes during the Late Cretaceous and CretaceousPaleogene (K/Pg) boundary transition in Tattofte, External Rif, northwestern Morocco: implications from dinoflagellate cysts and palynofacies. **2021**,		
597	Tooth morphology elucidates shark evolution across the end-Cretaceous mass extinction. **2021**, 19, e3001108		4
596	High pCO Reduces Sensitivity to CO Perturbations on Temperate, Earth-like Planets Throughout Most of Habitable Zone. **2021**, 21, 1406-1420		2
595	First Peoples in a New World: Populating Ice Age America. **2021**, 197-225		
594	First Peoples in a New World: Populating Ice Age America. **2021**, 448-466		
593	First Peoples in a New World: Populating Ice Age America. **2021**, 1-22		
592	Chicxulub impact tsunami megaripples in the subsurface of Louisiana: Imaged in petroleum industry seismic data. **2021**, 570, 117063		1
591	First Peoples in a New World: Populating Ice Age America. **2021**,		10
590	First Peoples in a New World: Populating Ice Age America. **2021**, xvii-xxiv		
589	First Peoples in a New World: Populating Ice Age America. **2021**, 90-130		
588	First Peoples in a New World: Populating Ice Age America. **2021**, 307-333		
587	First Peoples in a New World: Populating Ice Age America. **2021**, 390-447		
586	First Peoples in a New World: Populating Ice Age America. **2021**, 268-306		
585	First Peoples in a New World: Populating Ice Age America. **2021**, 131-173		
584	First Peoples in a New World: Populating Ice Age America. **2021**, xxv-xxviii		

583 Thinking about the Biodiversity Loss in This Changing World. **2021**, 11, 370 1

582 First Peoples in a New World: Populating Ice Age America. **2021**, 174-196

581 Is geoheritage a □utting-edge□ science? Promotion of an extension to the definition of geoheritage with emphasis as a significant discipline in geosciences with cultural and societal relevance. **2021**, 1

580 Life in Elliptical Galaxies: Hot Spheroids, Fast Stars, Deadly Comets?. **2021**, 919, 8 0

579 Evolution and dispersal of snakes across the Cretaceous-Paleogene mass extinction. **2021**, 12, 5335 1

578 First Peoples in a New World: Populating Ice Age America. **2021**, 226-267

577 First Peoples in a New World: Populating Ice Age America. **2021**, 58-89

576 Adaptive radiation and speciation in Rhipicephalus ticks: A medley of novel hosts, nested predator-prey food webs, off-host periods and dispersal along temperature variation gradients. **2021**, 162, 107178 4

575 Stratigraphy around the Cretaceous-Paleogene boundary in sediment cores from the Lord Howe Rise, Southwest Pacific.

574 Influence of the Latest Maastrichtian Warming Event on planktic foraminiferal assemblages and ocean carbonate saturation at Caravaca, Spain. *Cretaceous Research*, **2021**, 125, 104844 1.8 3

573 Special Issue in honour of Dale Alan Russell (1937□2019)1. **2021**, 58, v-vi 0

572 First Peoples in a New World: Populating Ice Age America. **2021**, 23-57

571 First Peoples in a New World: Populating Ice Age America. **2021**, 334-389

570 Bats and viruses: a death-defying friendship. **2021**, 32, 1-13 2

569 Physical characterization of a simulated impact-vapor plume using laser ablation of Chicxulub sediments. **2021**, 206, 105311

568 Early-warning signals for Cenozoic climate transitions. **2021**, 270, 107177 4

567 New South American record of the Cretaceous□Paleogene boundary interval (La Colonia Formation, Patagonia, Argentina). *Cretaceous Research*, **2021**, 126, 104889 1.8 6

566 Dinoflagellate cyst-based paleoenvironmental reconstructions and phytoplankton paleoecology across the Cretaceous□Paleogene (K/Pg) boundary interval, Vancouver Island, British Columbia, Canada. *Cretaceous Research*, **2021**, 126, 104878 1.8 3

565	Apatite (U-Th)/He thermochronometric constraints on the northern extent of the Deccan large igneous province. **2021**, 571, 117087	3
564	Geochemical evidence for volcanic signatures in sediments of the Younger Dryas event. **2021**, 312, 57-74	1
563	Dark primitive asteroids account for a large share of K/Pg-scale impacts on the Earth. **2021**, 368, 114621	2
562	Late-time small body disruptions for planetary defense. **2021**, 188, 367-386	0
561	Hypothetical Apophis deep ocean impact Energy analysis. **2021**, 188, 438-450	1
560	Seismic stratigraphic evidence of a pre-impact basin in the Yucatâ Platform: morphology of the Chicxulub crater and K/Pg boundary deposits. **2021**, 441, 106594	0
559	Cretaceous Paleogene transition interval in the north flank of the Alborz Mountains (N Iran); Planktic foraminiferal biostratigraphy and stable isotopes evidence. **2021**, 183, 104329	
558	Earth as an Evolving Planetary System - Pages 353-388. **2022**, 353-388	
557	Climate Change Patterns. **2021**, 175-221	1
556	Geochemistry in earth sciences: a brief overview. **2021**, 47, 3-13	
555	RETRACTED: Periods 6 and 7 (including lanthanides and actinides). **2021**, 633-883	
554	About the Modern System of Three Energy-Carrying Intensive Vortices in the Earth Mantle. **2021**, 273-291	4
553	Space weather and cosmic ray effects. **2021**, 711-768	1
552	Large Igneous Province Record Through Time and Implications for Secular Environmental Changes and Geological Time-Scale Boundaries. **2021**, 1-26	24
551	The transfer of viable microorganisms between planets. **1996**, 202, 304-14; discussion 314-7	3
550	Chicxulub Asteroid Impact. 93-111	1
549	IAU Initiatives Relating to the Near-Earth Object Impact Hazard. **2006**, 225-241	1
548	Fullerenes in the Cretaceous-Tertiary Boundary. **2006**, 191-212	1

547	The Sweet Aftermath: Environmental Changes and Biotic Restoration Following the Marine Mjǹir Impact (Volgian-Ryazanian Boundary, Barents Shelf). **2006**, 143-178	5
546	The Structure and Age of the Kaali Main Crater, Island of Saaremaa, Estonia. **2005**, 341-355	6
545	Azooxanthellate corals in the Late Maastrichtian - Early Paleocene of the Danish basin: bryozoan and coral mounds in a boreal shelf setting. **2005**, 3-25	14
544	Dual-Phase Evolution. **2014**, 3-40	2
543	Iridium and Osmium as Tracers of Extraterrestrial Matter in Marine Sediments. **2001**, 163-178	4
542	Extraterrestrial Helium in Seafloor Sediments: Identification, Characteristics, and Accretion Rate Over Geologic Time. **2001**, 179-204	11
541	Extinction and the Evolutionary Process. **1997**, 59-73	11
540	Structural Evolution of Quartz and Feldspar Crystals and their Glasses by Shock Compression. **2003**, 47-74	3
539	Terrestrial Acidification at the K/T Boundary. **2003**, 181-197	1
538	Mantle Degassing Unification of the Trans-K T Geobiological Record. **1985**, 287-313	11
537	The GreenlandNorwegian Sea and Iceland Environment: Geology and Geophysics. **1981**, 493-598	12
536	The Contemporary Hazard of Cometary Impacts. **1997**, 243-258	1
535	Comets and the Origin and Evolution of Life. **1997**, 3-27	9
534	Polymers and Other Macromolecules in Comets. **1997**, 111-129	7
533	Comets as a Source of Prebiotic Organic Molecules for the Early Earth. **1997**, 147-173	32
532	Impacts and the Early Evolution of Life. **1997**, 175-208	45
531	Cometary Impacts on the Biosphere. **1997**, 209-242	5
530	Crises in Ammonoid Evolution. **1996**, 795-813	11

529	References Cited. **1991**, 87-94	2
528	Asteroid Impact Risk Assessment: Rationalizing the Threat. **2019**, 181-203	0
527	Cretaceous Volcanism in Peninsular India: Rajmahal Sylhet and Deccan Traps. **2020**, 233-289	6
526	The Twenty-First-Century Singularity in the Big History Perspective A Re-analysis. **2020**, 19-75	21
525	A Research Perspective on Disturbance and Recovery of a Tropical Montane Forest. **1992**, 173-190	23
524	The Lethality of Interplanetary Warfare: A Fundamental Constraint on Extraterrestrial Liberty. **2015**, 187-198	7
523	Mass Extinctions and Supernova Explosions. **2016**, 1-12	2
522	Encyclopedia of Geochemistry. **2017**, 1-21	1
521	Life on Land. **2020**, 1-14	1
520	Natural Glasses. **2019**, 771-812	8
519	Physical Effects of Comet and Asteroid Impacts: Beyond the Crater Rim. **2007**, 211-224	2
518	Frequent Ozone Depletion Resulting from Impacts of Asteroids and Comets. **2007**, 225-245	9
517	The Physical and Social Effects of the Kaali Meteorite Impact a Review. **2007**, 265-275	6
516	The Climatic Effects of Asteroid and Comet Impacts: Consequences for an Increasingly Interconnected Society. **2007**, 277-289	3
515	Nature of the Tunguska Impactor Based on Peat Material from the Explosion Area. **2007**, 291-301	3
514	May Land Impacts Induce a Catastrophic Collapse of Civil Societies?. **2007**, 419-436	1
513	Understanding the Near-Earth Object Population: the 2004 Perspective. **2007**, 175-187	4
512	The Thermodynamics of Ecosystems. **1990**, 1-47	7

511	Silurian global events at the tipping point of climate change. **2008**, 21-57	41
510	A Dual Phase Evolution Model of Adaptive Radiation in Landscapes. **2007**, 131-143	5
509	Applications of Osmium and Iridium as Biogeochemical Tracers in the Environment. **2012**, 205-227	4
508	Extraterrestrial He in Sediments: From Recorder of Asteroid Collisions to Timekeeper of Global Environmental Changes. **2013**, 155-176	7
507	Lithofacies and Granulometric Characteristics of the Kallamedu Formation, Ariyalur Group, South India: Implications on Cretaceous-Tertiary Boundary Events. **2013**, 263-284	5
506	Calcareous Nannofossils from the Ottakoil Formation, Cauvery Basin, South India: Implications on Age and Late Cretaceous Environmental Conditions. **2013**, 109-122	3
505	Near Earth Asteroids Prospection, Orbit Modification, Mining and Habitation. **2013**, 415-438	3
504	The Stratigraphic Record of Impact Events: A Short Overview. **2003**, 1-40	2
503	Application of stratigraphic nomenclature to terrestrial impact-derived and impact-related materials. **2003**, 41-64	3
502	Impact Decompression Melting: A Possible Trigger for Impact Induced Volcanism and Mantle Hotspots ?. **2003**, 91-119	7
501	Near Earth Environment. **2001**, 163-231	11
500	Klima und Ozean. **2001**, 51-107	2
499	Radiation Effects of the Chicxulub Impact Event. **2002**, 237-247	5
498	Sudden Changes in Atmospheric Composition and Climate. **1984**, 41-61	8
497	Geochemical Markers of Impacts and of Their Effects on Environments. **1984**, 63-74	5
496	Environmental Changes in Times of Biotic Crisis. **1986**, 297-312	11
495	Distribution and Evolution of Non-Coralline Crustose Red Algae in the North Atlantic. **1990**, 241-264	11
494	Landscapes and Climate in Prehistory: Interactions of Wildlife, Man, and Fire. **1990**, 273-318	27

493	Deep-Sea Stratigraphy: Cenozoic Climate Steps and the Search for Chemo-Climatic Feedback. **1982**, 121-157	14
492	Shock metamorphism in artificial impact craters. **1992**, 403-407	1
491	The Idea of Global Events. **1996**, 1-5	2
490	Permian Global Bio-Events. **1996**, 251-264	5
489	Cretaceous Bio-Events. **1996**, 285-312	9
488	Global Effects of the Chicxulub Impact on Terrestrial Vegetation Review of the Palynological Record from New Zealand Cretaceous/Tertiary Boundary. **2004**, 57-74	6
487	Did the Puchezh-Katunki Impact Trigger an Extinction?. **2004**, 135-148	5
486	Biological Extinction in Terms of Overadaptation. **1991**, 21-25	1
485	Medical Geology: Perspectives and Prospects. **2013**, 1-13	13
484	Teaching Controversies in Earth Science: The Role of History and Philosophy of Science. **2014**, 553-599	6
483	Cosmic Evolution, Life and Man. **1996**, 3-19	3
482	Ostracoda and the discovery of global Cainozoic palaeoceanographical events. **1990**, 41-58	20
481	Paleoclimate Modelling. **1988**, 883-949	25
480	Some Implications of Mass Extinction for the Evolution of Complex Life. **1985**, 223-232	6
479	Evidence for a Solar Companion Star. **1985**, 233-243	6
478	Taxonomy and distribution of non-legume nitrogen-fixing systems. **1983**, 55-87	37
477	Galactic Triggering of Periodic Comet Showers and Mass Extinctions on Earth. **2001**, 103-120	1
476	Episodes Of Terrestrial Geologic Activity During The Past 260 Million Years: A Quantitative Approach. **1992**, 143-159	6

475	Statistical and Evolutionary Aspects of Cometary Orbits. **1991**, 487-535	27
474	Physics and chemistry of impacts. **1999**, 279-329	14
473	Speciation and rarity: separating cause from consequence. **1997**, 91-109	28
472	Is Extraterrestrial Organic Matter Relevant to the Origin of Life on Earth?. **1997**, 249-262	4
471	Asteroid and Comet Encounters with the Earth. **1999**, 127-158	5
470	The End-Cretaceous Extinction and Ecosystem Change. **2016**, 265-300	8
469	Mass Extinctions, Concept of. **2001**, 97-110	3
468	INTRODUCTION: WHAT IS A CRISIS?. **1981**, 1-12	6
467	Influence of Large Igneous Provinces. **2020**, 345-356	3
466	The Paleogene Period. **2020**, 1087-1140	15
465	Do Radical Discoveries Require Ontological Shifts?. **2003**, 430-444	26
464	Stable climate in India during Deccan volcanism suggests limited influence on K–Pg extinction. **2020**, 85, 19-31	9
463	The Gulf of Mexico Sedimentary Basin: Depositional Evolution and Petroleum Applications. **2019**,	19
462	The Exoplanet Handbook. **2018**,	39
461	The Anthropocene as a Geological Time Unit: A Guide to the Scientific Evidence and Current Debate. **2019**,	63
460	Fundamentals of Geophysics. **2020**,	5
459	An Anthropology of Deep Time: Geological Temporality and Social Life. **2020**,	4
458	Biodiversity and Environmental Philosophy: An Introduction. **2005**,	97

457	Biostratigraphy: Microfossils and Geological Time. **2005**,	25
456	Atmospheric Pollution: History, Science, and Regulation. **2002**,	136
455	Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**,	3
454	Comets and Life on the Primitive Earth. **1997**, 161, 97-120	6
453	Catastrophic Impacts and the Drake Equation. **1997**, 161, 157-164	18
452	Critical Biodiversity. **1998**, 12, 521-532	10
451	GJ 273: on the formation, dynamical evolution, and habitability of a planetary system hosted by an M dwarf at 3.75 parsec. **2020**, 641, A23	12
450	Transforming Inferences into Explanations: Lessons from the Study of Mass Extinctions. **2007**, 145-175	16
449	The Physical Properties of HD 3651B: An Extrasolar Nemesis?. **2007**, 658, 617-621	54
448	Scientists' Responses to Anomalous Data: Evidence from Psychology, History, and Philosophy of Science. **1994**, 1994, 304-313	3
447	Solar System Physics for Exoplanet Research. **2020**, 132, 102001	10
446	Are Insects Heading Toward Their First Mass Extinction? Distinguishing Turnover From Crises in Their Fossil Record. **2021**, 114, 99-118	18
445	Dinosaur diversification rates were not in decline prior to the K-Pg boundary. **2020**, 7, 201195	6
444	Constructing a Timescale of Biotic Recovery across the Cretaceous□Paleogene Boundary, Corral Bluffs, Denver Basin, Colorado.	1
443	Late Ordovician extinction of North American and British crinoids. **1988**, 21, 147-167	45
442	The Extinction of the Dinosaurs in North America. **2005**, 15, 4	50
441	What causes mass extinctions? Large asteroid/comet impacts, flood-basalt volcanism, and ocean anoxia□Correlations and cycles. **2019**, 271-302	4
440	A record of the micrometeorite flux during an enigmatic extraterrestrial3He anomaly in the Turonian (Late Cretaceous). **2019**, 303-318	1

439	Volcanism as a prime cause of mass extinctions: Retrospectives and perspectives. **2020**, 1-34	3
438	Magmatism in the Cordilleran United States; Progress and problems. 481-27	14
437	Geological Society of London Scientific Statement: what the geological record tells us about our present and future climate. **2021**, 178, jgs2020-239	4
436	From Tunguska to Chelyabinsk via Jupiter. **2016**, 44, 37-56	22
435	Ecological Response of Plankton to Environmental Change: Thresholds for Extinction. **2020**, 48, 403-429	31
434	Snake Venomics and Disintegrins. **2009**, 337-357	4
433	Neo-Catastrophism and a New Global Interpretation of History. **2013**, 1, 85-116	1
432	Fossil worm burrows reveal very early terrestrial animal activity and shed light on trophic resources after the end-cretaceous mass extinction. **2013**, 8, e70920	23
431	Bottom-water conditions in a marine basin after the Cretaceous-Paleogene impact event: timing the recovery of oxygen levels and productivity. **2013**, 8, e82242	22
430	New results on magnetic spherules from Hungary. **2004**, 47, 287-296	1
429	Disaster Geoarchaeology and Natural Cataclysms in World Cultural Evolution: An Overview. **2019**, 35, 1307	7
428	.	7
427	A new look at the nature of the transitional layer at the K/T boundary near Gams, Eastern Alps, Austria, and the problem of the mass extinction of the biota. **2005**, 7, 1-45	29
426	Two spinel populations from the Cretaceous-Paleogene (K/T) boundary clay layer in the Gams stratigraphic sequence, Eastern Alps. **2007**, 9, 1-11	15
425	The K/T Boundary of Gams (Eastern Alps, Austria) and the Nature of Terminal Cretaceous Mass Extinction. **2009**,	9
424	Geochemistry of the cretaceous-tertiary transition boundary at Blake Nose (N. W. Atlantic): Cosmogenic Ni. **2004**, 69, 205-223	3
423	Cretaceous-Tertiary boundary deposits in Denmark: A diachroneity. **2004**, 69, 555-561	3
422	Geochemistry of Ni in the Cretaceous-Tertiary succession Fiskeler (Fish Clay) at Stevns Klint (Denmark): cheto-smectite of the black marl. **2006**, 71, 639-659	1

421	Geochemistry of the cretaceous-tertiary boundary (Fish Clay) at Stevns Klint (Denmark): Ir, Ni and Zn in kerogen. **2006**, 71, 793-806	5
420	Local structure of Zn in Cretaceous-Tertiary boundary clay from Stevns Klint. **2012**, 107, 192-196	5
419	XAFS study of Zr in Cretaceous□Tertiary boundary clays from Stevns Klint. **2015**, 110, 88-91	3
418	The Role of Space Missions in the Assessment of the NEO Impact Hazard. **2003**,	2
417	Neutron Activation Analysis. **1986**, 233-242	1
416	Climate as a problem of physics. **2000**, 170, 419	21
415	Ernst Julius □ik, an Undervalued Estonian Precursor of the Alvarez Impact Catastrophism. **2012**, 57, 680-680	2
414	Biostratigraphy and Mass Extinction Pattern across the Cretaceous/Paleogene Boundary, Northern Alborz, Iran. **2013**, 03, 33-38	3
413	A Significantly High He Isotopic Signature from the End-Paleozoic (250 Ma) Extinction-related Interval: For Detecting Ancient Extraterrestrial Fluxes through the Earth's History since the Hadean. **2019**, 128, 667-679	5
412	Mass extinctions past and present: a unifying hypothesis.	8
411	The Earth expansion theory and its transition from scientific hypothesis to pseudoscientific belief. **2014**, 5, 135-148	6
410	The Great Chicxulub Debate-Synchronicity of the Chicxulub impact and the Cretaceous/Tertiary boundary-. **2005**, 111, 193-205	0
409	The old and the new plankton: ecological replacement of associations of mollusc plankton and giant filter feeders after the Cretaceous?. **2018**, 6, e4219	24
408	Calcareous dinoflagellate cyst distribution across the K/Pg boundary at DSDP site 577, Shatsky Rise, western North Pacific Ocean. **2021**, 168, 102057	
407	Volcanic origin of the mercury anomalies at the Cretaceous-Paleogene transition of Bidart, France.	1
406	Early Paleocene Paleoceanography and Export Productivity in the Chicxulub Crater. **2021**, 36, e2021PA004241	3
405	Mesozoic origin of coleoid cephalopods and their abrupt shifts of diversification patterns. **2022**, 166, 107331	2
404	Deriving a denudation index for terrestrial meteorite impact craters using drainages as proxies. **2021**, 397, 108007	0

403	A Survey of Solar System and Galactic Objects With Pristine Surfaces That Record History and Perhaps Panspermia, With a Plan for Exploration. **2021**, 267-308	
402	The Great Ordovician Biodiversification Event (GOBE) is Not a Single Event. **2021**, 25,	9
401	Special Issue Renaissance for Paleozoic Evolution Studies: Radiation and Extinction—Preface. **2021**, 25,	
400	References. **2000**,	
399	Craters on the Moon from Galileo to Wegener: A Short History of the Impact Hypothesis, and Implications for the Study of Terrestrial Impact Craters. **2001**, 209-224	1
398	Erdgeschichte als Klimageschichte. **2001**, 17-49	1
397	Mammals (Pre-Quaternary), Extinctions of. **2001**, 841-851	
396	NEO, The Spaceguard System and the Spaceguard Foundation. **2001**, 333-349	
395	A Review of the Catastrophic Extinction at the End of the Cretaceous and Its Scientific Implication. **2001**, 361-372	
394	Mass Extinctions of Species—Were Dinosaurs Killed by An Asteroid or Volcanoes?. **2001**, 627-643	
393	La crise biologique de la fin du crétacé et la disparition des dinosaures. Validité de l'hypothèse cosmique. **2001**, 185, 1307-1326	
392	Extraterrestrial Material Deposition after Impacts into Continental and Oceanic Sites. **2002**, 249-263	
391	Tracing Competing Paradigms. **2003**, 167-190	
390	Asteroids.	
389	New Geochemical Insights from Electron-Spin- Resonance Studies of Mn2+ and SO3- in Calcites: Quantitative Analyses of Chicxulub Crater Ejecta from Belize and Southern México with Comparison to Limestones from Distal Cretaceous-Tertiary-Boundary Sites. **2003**, 229-270	0
388	Giant Comets and Human Culture. **2003**, 233-240	
387	PLANET EARTH. **2003**, 43-71	
386	THE BIOSPHERE. **2003**, 95-113	

385 Myth and environmental philosophy. **2003**, 170-185

384 Die Entstehung der Erde. **2004**, 45-70

383 Extraterrestrial Impacts on Earth and Extinction of Life in the Himalaya. **2004**, 245-248 1

382 Appendix. **2004**, 223-237

381 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 1-4

380 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 117-152

379 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, xi-xiii

378 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 185-212

377 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 41-64

376 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 93-116

375 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 65-92

374 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 153-184

373 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 5-40

372 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 245-252

371 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, xv-xv

370 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 253-276

369 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**,

368 Geology of the American Southwest: A Journey through Two Billion Years of Plate-Tectonic History. **2004**, 213-244

367 Modeling Waves Using Compressible Models. **2004**,

366 Mineral systems, hydridic fluids, the Earth core, mass extinction events and related phenomena. **2005**, 65-68

365 References. **2005**, 407-441

364 Biostratigraphy and biohistorical theory I: evolution and correlation. **2005**, 85-163

363 Biostratigraphy and biohistorical theory II: carving Nature at the joints. **2005**, 205-270

362 References. **2005**, 397-446

361 Systemic stratigraphy: beyond classical biostratigraphy. **2005**, 164-204

360 Preface. **2005**, xi-xviii

359 On biostratigraphy and biogeohistory. **2005**, 346-396

358 The Hole in the Ground. **2006**, 135-145

357 The Albion Formation, the Cretaceous-Tertiary boundary sequence in Belize: the ejecta formation of the nearest sequence from the Chicxulub crater. **2006**, 112, 730-748

356 Developmental Disorders and Evolutionary Expectations: Mechanisms of Resilience. **2006**, 104-120

355 Probabilities: Longevity. **2007**, 94-100

354 16 Patterns of Diversification and Extinction. **2007**, 441-501

353 Plumacy reprise. **2007**, 955-974

352 Tsunamis and tsunami sedimentology. **2008**, 9-51 1

351 Deep-sea tsunami deposits in the proto-Caribbean sea at the Cretaceous/Tertiary boundary. **2008**, 305-329

350 Meteorite. **2010**, 505-521

349	The Earth in Time. **2010**, 35-105	0
348	From trace metals to giant deposits. **2010**, 59-68	
347	Dual phase evolution mechanism for self-organization in complex systems. **2010**, 58-65	2
346	References. **2010**, 755-826	
345	The Geomicrobiology of Catastrophe: A Comparison of Microbial Colonization in Post-volcanic and Impact Environments. **2010**, 193-217	
344	The Chicken Littles of Big Science; or, Here Come the Killer Asteroids!. **2010**, 139-185	
343	Discussion on the Dynamic Mechanism of Global Tectonics. **2010**, 363-384	
342	Encyclopedia of Modern Coral Reefs. **2011**, 671-678	
341	Water on Small Solar System Bodies. **2011**, 105-127	
340	Mass extinction caused by extraterrestrial impact: Why did it occur only at the Cretaceous/Paleogene boundary?. **2011**, 117, 193-203	
339	Magma Transport. **2011**, 539-616	
338	Cumulative impact assessment: A synopsis of guidance and best professional practices. **2011**, 23-86	
337	References. 453-500	
336	References. 211-243	
335	Extinctions in Deep Time. **2012**, 141-156	
334	Three enigmas of highly siderophile elements in Earth's mantle. **2012**, 41, 203-210	
333	Thirty Odd Years After Alvarez's Discovery: Faunal Evolution and Principal Bio-Events of the Cretaceous Period Recent Progress and Future Directions. **2012**, 57, 675-676	
332	Impact Ejecta and Fallout Units. **2013**, 49-55	

331 Large (>100 km Diameter) Impact Structures. **2013**, 91-100

330 Terrestrial Planets. **2013**, 111-193

329 Geodynamic Mantle Modeling and Its Relation to Origin and Preservation of Life. **2013**, 591-617

328 Encyclopedia of Natural Hazards. **2013**, 18-28

327 A Paradigm Shift in Earth Science. **2013**, 1-14

326 Patterns of Diversification and Extinction. **2013**, 1-60

325 References. 325-362

324 Meteorite. **2014**, 547-565

323 Meteorites, Asteroids and the Age and Origin of the Solar System. **2014**, 647-711

322 Cenozoic Atmospheres and Early Hominins. **2014**, 29-44

321 References. **2014**, 233-259

320 Die Entstehung der Biodiversität. **2014**, 25-46

319 Sensitive but Unclassified. **2014**, 113-144

318 Bad Weather. **2014**, 77-111

317 KT Boundary. **2014**, 1-2

316 Notes. **2014**, 213-231

315 Space-Based Infrared Discovery and Characterization of Minor Planets with NEOWISE. **2014**, 1-24

314 Survival Is Your Business. **2014**, 45-76

313 Biosecurity Noir. **2014**, 145-191 1

312 Living Counterterror. **2014**, 193-210

311 Asteroid. **2014**, 1-13

310 Anthropocenic Aquifer. **2014**, 1-15 1

309 References. **1982**, 288-304

308 Geophysics 2001. **1984**, 249-255

307 Search for Extraterrestrial Life. **1985**, 713-723

306 Accelerator-Based Ultrasensitive Mass Spectrometry. **1985**, 429-463

305 Gold and platinum group element analysis. **1987**, 486-496

304 Gold and platinum group element analysis. **1987**, 486-496

303 Comets and Life. **1988**, 39-40

302 Einschläge auf die Erde. **1988**, 85-110

301 Water. **1989**, 238-283

300 BIBLIOGRAPHY. **1989**, 351-399

299 References. **1989**, 439-467

298 Life. **1989**, 284-341

297 Biogeochemical Evolution. **1989**, 342-392

296 Laser Ultrasensitive Photoionization Detection of Rare Elements in Geochemistry, Oceanology and Study of Geological Catastrophes. **1990**, 177-183 1

295 Die Geschichte der biologischen Diversität. **1990**, 391-421

294 Environmental Systems. **1990**, 49-96

293 Bioastronomy (Report of Iad Commission 51). **1991**, 599-612

292 Computation of the collision of a large asteroid with the primordial earth. **1992**, 409-414

291 Evidence Of Earth Catastrophe By Anomalous Shocked Quartz At The Kit Boundary. **1992**, 249-253

290 The Fundamental Role Of Giant Comets In Earth History. **1992**, 179-193

289 Extraterrestrial geomorphology: science and philosophy of Earthlike planetary landscapes. **1993**, 9-35 1

288 . **1993**,

287 Die zeitliche Dimension des Lebens. **1993**, 41-54

286 Appendix. **1993**, 397-424

285 Could a Comet Have Slain the Dinosaurs?. **1994**, 181-197 1

284 Dinosaurier am Rande des Kollaps – und dann?. **1994**, 255-272

283 M. **1995**, 1931-2114

282 A Self-Organized Critical Model for Evolution. **1995**, 269-288 1

281 A Historical View of Uniformitarianism. **1995**, 68, 527-549 1

280 Paleoceanography – the Deep-Sea Record. **1996**, 241-276

279 The "Shiva Hypothesis": Impacts, Mass Extinctions, and the Galaxy. **1996**, 441-460 3

278 Fighting Extinctions. **1996**, 180-193

277 A Jupiter Fragmented Comet: Cause of the K/T Boundary Record. **1996**, 461-466

276 Mass Extinctions and Punctuated Equilibria in a Simple Model of Evolution. **1996**, 129-159

275 Long-term Responses to Physical Stress: Evidence from the Fossil Record. **1996**, 1-23

274 Near Earth Asteroid Rendezvous: Mission Overview. **1997**, 3-29 1

273 Water Sustainability and Politics Examples from Latin America and Implications for Agroecology. **2012**, 227-277

272 History of Palaeontology.

271 Patterns of Diversification and Extinction. **2015**, 351-415

270 Microbiostratigraphy of the Sediments of Talezang Formation in Ghalebi Section (Southwest Lorestan, Iran). **2015**, 05, 399-404

269 Bergson Core Ideas. **2015**, 16-84

268 Encyclopedia of Astrobiology. **2015**, 178-189

267 Impacts Craters. **2015**, 123-136

266 The wo Camels of Koussa: A Massive Ferrous Meteorite in Mayo Binka (North-West Region in Cameroon). **2015**, 05, 649-654

265 Space-Based Infrared Discovery and Characterization of Minor Planets with NEOWISE. **2015**, 583-611 2

264 Systems Theory Grows Up. **2015**, 110-150

263 Earth's Sixth Mass Extinction Event. **2015**,

262 Encyclopedia of Astrobiology. **2015**, 1340-1341

261 The Future of Vultures: Conclusions and Summary. **2015**, 268-280

260 O estudo dos rpteis fseis-cresce a contribuio da cincia brasileira. **2015**, 67, 32-39

259 Early Earth Systems. **2016**, 1-43

258 Meteorite Impact Vaporization Experiments Using Laser-Induced Hypervelocity Flyers: Application to K/Pg Mass Extinction. **2016**, 44, 608

257 Meteor Impact Hazard. **2016**, 427-454

256 I. **2016**, 280-300

255 The Energy of an Asteroid Hitting the Earth. **2016**, 04, 47-55

254 Life. **2016**, 71-84

253 Lunar Regolith: Materials. **2016**, 1-7 1

252 IMPACT STRUCTURES IN SEAS AND OCEANS. **2016**, 12, 5-18 1

251 1Chapter 7 Snake Venomics and Disintegrins: Portrait and Evolution of a Family of Snake Venom Integrin Antagonists. **2016**, 353-374

250 Cretaceous-Paleogene Boundary Clays from Spain and New Zealand: Arsenic Anomaly and the Deccan Traps. 55, 1-8

249 The Tale of Chicxulub. **2017**, 21-42

248 REFERENCES. **2017**, 258-272

247 Of Birds and Men. **2017**, 329-374

246 Natural Hazards. **2017**, 189-239

245 Mammals (Pre-Quaternary), Extinctions of ?. **2017**,

244 [illegible] **2017**, 381-401

243 Encyclopedia of Geochemistry. **2017**, 1-10

242 Encyclopedia of Geochemistry. **2018**, 561-571 2

241	How to Trace out Impact-Triggered Effects Globally Scattered around Formation Boundaries: Case Uhry, North Germany (Eocene/Oligocene Boundary). **2018**, 08, 9-32	2
240	Species Senescence. **2018**, 129-137	
239	Asteroids, Comets, and Other Non-Planetary Objects. **2018**, 99-118	
238	Encyclopedia of Geochemistry. **2018**, 743-745	
237	Stevns Klint, Denmark. **2019**, 75-80	
236	The Cosmic Impact Hazard. **2019**, 15-32	0
235	Geochemical characterization of large impact event recorded in the bedded chert sequence from Japan. **2018**, 124, 983-993	
234	A Guide to the Elements. Fourth Edition. By Albert Stwertka. Oxford University Press, 2018. Hardback, Pp. 263. Price GBP 38.99. ISBN 9780190682347. Paperback Price GBP 19.99. ISBN 9780190682354. **2019**, 75, 85-86	
233	Cretaceous-Paleogene boundary tsunamite on the Adriatic carbonate platform and possible source of a hypothetical Atlantic-to-western-Tethys megatsunami. **2019**, 319-332	
232	Preserving Biological Diversity: Coastal Ecosystem Restoration Not In Balance. **2019**, 29-52	
231	Neutron Activation Analysis[1]. **2019**, 292-301	
230	Do Near-Solar-System Supernovae Enhance Volcanic Activities on Earth and Neighbouring Planets on Their Paths through the Spiral Arms of the Milky Way, and What Might Be the Consequences for Estimations of Earth's History and Predictions for Its Future?. **2019**, 10, 563-575	2
229	Positive Ir anomaly at 6.19 m, Massignano, Italy: Most likely not from the Chesapeake Bay impact. **2019**, 369-382	
228	Cobaltgruppe: Elemente der neunten Nebengruppe. **2019**, 1-37	
227	The Evolution of Larger Brains since the Vertebrate–Invertebrate Divide. **2019**, 15-26	
226	Widening the Research Front. **2019**, 141-156	
225	Multiproxy Cretaceous-Paleogene boundary event stratigraphy: An Umbria-Marche basinwide perspective. **2019**, 133-158	0
224	A review of the Earth history record in the Cretaceous, Paleogene, and Neogene pelagic carbonates of the Umbria-Marche Apennines (Italy): Twenty-five years of the Geological Observatory of Coldigioco. **2019**, 1-58	2

223 Lunar Observations and Speculations from Gilbert to the Apollo Explorations. **2019**, 19-49

222 Synsedimentary deformation in Upper Cretaceous lower Paleogene limestones within a thrust anticline of the Umbria-Marche Apennines, Italy. **2019**, 213-228

221 Adaptation in Landscapes. **2020**, 157-176

220 The Tectonic Evolution of Asian Continental Lithosphere. **2020**, 109-178

219 Fundamentals of Geophysics. **2020**, 1-20

218 Fundamentals of Geophysics. **2020**, 397-398

217 Fundamentals of Geophysics. **2020**, 402-404

216 Fundamentals of Geophysics. **2020**, 288-316 0

215 Fundamentals of Geophysics. **2020**, 253-287

214 Fundamentals of Geophysics. **2020**, 356-393

213 Seismic attribute analysis of Chicxulub impact crater. **2020**, 68, 627-640 0

212 Mapping Deep Time. **2020**, 106-128

211 Introduction. **2020**, 1-6

210 Relief Forms on Planets. **2020**, 245-259

209 Enter Catastrophe. **2020**, 153-171

208 Sequence of Events around the K/T Boundary at El Kef (NW Tunisia). **2020**, 67-78

207 Black Holes and the Unification of Asymmetries. **1983**, 329-347

206 Fundamentals of Geophysics. **2020**, 87-124

205	Fundamentals of Geophysics. **2020**, 146-190		
204	Fundamentals of Geophysics. **2020**, 191-234		
203	Fundamentals of Geophysics. **2020**, ix-x		
202	Seed traits linked to differential survival of plants during the Cretaceous/Paleogene impact winter. **2020**, 60, 307-322		0
201	The flight of impact craters based on paleo-positions and its unrestrained latitudinal distribution.		0
200	Ripples on the Great Sea of Life: A Brief History of Existential Risk Studies. *SSRN Electronic Journal*,	1	0
199	Lognormals for SETI, Evolution and Mass Extinctions. **2020**, 497-517		
198	The Age of Dinosaurs in the Land of Gonds. **2020**, 181-226		0
197	Fundamentals of Geophysics. **2020**, 48-86		
196	Brazilian Deep-Sea Corals. **2020**, 73-107		1
195	On Dinosaur Reconstruction: An Introduction to Important Topics of Paleontology and Dinosaurs. **2021**, 11, 525-571		1
194	Fundamentals of Geophysics. **2020**, 394-396		
193	Evolution and Biostratigraphy. **2020**, 35-137		3
192	Western Continental Margin and Adjacent Oceanic Regions. **2020**, 167-200		
191	SETI as a Part of Big History. **2020**, 465-496		
190	Mass Movements Related with Impact Craters. **2020**,		
189	Fundamentals of Geophysics. **2020**, 317-355		
188	Fundamentals of Geophysics. **2020**, 411-420		

187 Fundamentals of Geophysics. **2020**, 21-47

186 Meteorites. **2020**, 583-603

185 Fundamentals of Geophysics. **2020**, 235-252

184 Fundamentals of Geophysics. **2020**, 125-145

183 Fundamentals of Geophysics. **2020**, 399-401

182 Fundamentals of Geophysics. **2020**, 405-410

181 Phanerozoic Mass Extinctions and Indian Stratigraphic Records. **2020**, 291-362 1

180 A New View of the Mass Extinctions and the Worldwide Floods. **2020**, 11, 251-287 1

179 Evolution and Mass Extinctions as Lognormal Stochastic Processes. **2020**, 171-207

178 Kurzweil Singularity as a Part of Evo-SETI Theory. **2020**, 585-641

177 Physics. **2020**, 3-16

176 Size-driven preservational and macroecological biases in the latest Maastrichtian terrestrial vertebrate assemblages of North America. 1-29 3

175 Meteorites that produce K-feldspar-rich ejecta blankets correspond to mass extinctions. jgs2021-055 0

174 Causes of global extinctions in the history of life: facts and hypotheses. **2020**, 24, 407-419

173 References. **2002**, 275-282

172 Encyclopedia of Geochemistry. **1999**, 21-23 1

171 Bildung der Kontinente und Evolution eine Reise durch Raum und Zeit. **2005**, 33-112

170 The Contemporary Hazard of Comet Impacts. **2006**, 285-302

169	Meteorites, Asteroids and the Age and Origin of the Solar System. **2008**, 257-311	
168	The Milan school of foraminiferal micropalaeontology. 305-316	
167	The Geologic Record of Destructive Impact Events on Earth. **2007**, 3-24	
166	Hazard Risk Assessment of a Near Earth Object. **2007**, 383-398	
165	Impact Events and the Evolution of the Earth. **2007**, 239-280	
164	KTB iron mineralogy at iridium deficient layers revealed by Mössbauer spectroscopy. **2006**, 537-542	
163	Causes of mass extinction at the K/Pg boundary: A case study from the North African Plate. **2008**, 133-148	1
162	Particulate carbon at the cretaceous-tertiary boundary. **1986**, 44, 782-783	
161	Societies' adaptation to computing. **1982**, 12, 14-20	
160	Natural Habitat Loss: Causes and Implications of Structural and Functional Changes. **2021**, 699-712	1
159	Lunar Exploration as a Probe of Ancient Venus. **2020**, 1, 66	1
158	Evolution of birds. **2022**, 83-107	
157	The Trinity High-Explosive Implosion System: The Foundation for Precision Explosive Applications. **2021**, 207, S204-S221	1
156	Geophysical Biogeography. **2021**, 81-113	
155	The longtime global climatic consequences modeling of the Chicxulub asteroid impact event. **2021**, 2090, 012110	
154	Evaluation of deep-water environmental conditions during the latest Maastrichtian-early Danian: Insights from the western south atlantic ocean. **2021**, 112, 103630	0
153	Hubble tension or a transition of the Cepheid SnIa calibrator parameters?. **2021**, 104,	7
152	Phylogenetic revision of the lichenized family Gomphillaceae (Ascomycota: Graphidales) suggests post-K-Pg boundary diversification and phylogenetic signal in asexual reproductive structures.. **2022**, 168, 107380	

151	Integrated bio- and chemostratigraphy of the Cretaceous Paleogene boundary interval in the Zagros Basin (Iran, central Tethys). **2022**, 587, 110785		0
150	Seeding the Solar System with Life: Mars, Venus, Earth, Moon, Protoplanets. **2020**, 29, 124-157		2
149	Seasonal calibration of the end-cretaceous Chicxulub impact event. *Scientific Reports*, **2021**, 11, 23704	4.9	0
148	Impact of the Chicxulub Asteroid: Potential Implications on Phyotoplankton and Anammox Bacteria. **2022**, 163-184		
147	Characterization of a novel arsenite long-distance transporter from arsenic hyperaccumulator fern Pteris vittata.. **2022**,		1
146	Iridium. **2022**, 369-390		
145	What Drives Plate Motion?.		
144	Bayesianism and Scientific Reasoning. **2022**,		2
143	Unraveling the record of a tropical continental Cretaceous-Paleogene boundary in northern Colombia, South America. **2022**, 114, 103717		
142	On amorphization as a deformation mechanism under high stresses. **2022**, 26, 100976		1
141	Oceanic anoxic events in the Earth geological history and signature of such event in the Paleocene-Eocene Himalayan foreland basin sediment records of NW Himalaya, India. **2022**, 15, 1		0
140	Bibliographie. **2016**, 274-282		
139	Search for a meteoritic component within the impact melt rocks of the Chicxulub impact structure peak ring, Mexico. **2022**,		2
138	Climatic constraints on the biogeographic history of Mesozoic dinosaurs.. **2021**,		3
137	Proxy measurement in paleoclimatology. **2022**, 12, 1		
136	Is extraterrestrial organic matter relevant to the origin of life on Earth?. **1997**, 27, 249-62		16
135	Cretaceous Extinctions and Wildfires. **1986**, 234, 261-262		3
134	Thermodynamics of Shock Vaporization/Devolatilization of Volatile-Bearing Rocks and its Experimental Investigation. **2021**, 31, 140-148		

133	Stratigraphy: The Modern Synthesis. **2022**, 341-417	0
132	Craters and Extinctions in the Geological Record. **2022**, 107-126	
131	The Mesozoic terminated in boreal spring.. **2022**, 603, 91-94	2
130	Isotopic filtering reveals high sensitivity of planktic calcifiers to Paleocene-Eocene thermal maximum warming and acidification.. **2022**, 119,	2
129	New Diminutive Eocene Lizard Reveals High K-Pg Survivorship and Taxonomic Diversity of Stem Xenosaurs in North America. **2022**, 2022,	
128	Determination of Re, Os, Ir, Ru, Pt, Pd Mass Fractions and 187 Os/ 188 Os Ratios of Organic-Rich Geological Reference Materials.	0
127	Deccan volcanic activity and its links to the end-Cretaceous extinction in northern China. **2022**, 210, 103772	1
126	???–???????????????????. **2022**,	0
125	Meteorite impact craters as hotspots for mineral resources and energy fuels: A global review. **2022**, 3, 136-146	1
124	The contribution of Walter Alvarez to the investigation of the Capitoline Hill in Rome. **2022**,	
123	Planetary defense: The communication challenge□lessons from the COVID-19 pandemic. **2022**,	
122	Oceanic productivity after the Cretaceous/Paleogene impact: Where do we stand? The view from the deep. **2022**,	1
121	Impact-crater ages and micrometeorite paleofluxes compared: Evidence for the importance of ordinary chondrites in the flux of meteorites and asteroids to Earth over the past 500 million years. **2022**,	
120	Life with a field geologist: Improbable adventures on five continents. **2022**,	
119	The KPg boundary Chicxulub impact-extinction hypothesis: The winding road towards a solid theory. **2022**,	
118	Deccan volcanism at K-Pg time. **2022**,	
117	Does the Earth have a pulse? Evidence relating to a potential underlying ~26□6-million-year rhythm in interrelated geologic, biologic, and astrophysical events. **2022**,	
116	Integrated stratigraphy of the Lutetian□Priabonian pelagic section at Bottaccione (Gubbio, central Italy): A proposal for defining and positioning the Global Stratotype Section and Point (GSSP) for the base of the Bartonian Stage (Paleogene System, Eocene Series). **2022**,	

115	Dinosaurs could not help it, can we? Big history and planetary health. **2022**,	
114	No evidence of multiple impact scenario across the Cretaceous/ Paleogene boundary based on planktic foraminiferal biochronology. **2022**,	
113	K-Pg boundary transition and attendant degeneration of clay lattices in late Maastrichtian-early Danian shelf facies of the Langpar formation, Meghalaya, India. **2022**, 1, 100050	1
112	Environmental significance of Palaeogene gastropod fossils in the southern margin of the Junggar Basin. 1-9	0
111	Prediction of Potentially Hazardous Asteroids using Deep Learning. **2022**,	0
110	A reconstruction of the early Paleocene palaeovegetation of Turtle Mountain, southwestern Manitoba, Canada.	1
109	The Chicxulub impact and its environmental consequences.	3
108	Knowledge gaps and missing links in understanding mass extinctions: Can mathematical modeling help?. **2022**, 41, 22-57	0
107	Past climate change. 66-118	
106	The Contemporary Hazard of Comet Impacts. **2006**, 285-302	
105	Non-Magmatic Glasses. **2022**, 87, 965-1014	2
104	Introduction. **2022**,	
103	Paleoenvironmental evolution during the Early Eocene Climate Optimum in the Chicxulub impact crater. **2022**, 589, 117589	0
102	Astronomical and terrestrial causes of physical, chemical and biological changes at geological boundaries. **1998**, 107, 251-263	1
101	Pojawienie si□rodziny □Hominidae□**1992**, 55, 125-141	
100	Pojawienie si□rodziny □Hominidae□**1992**, 55, 125-141	
99	Geomorphology and Late Cenozoic Climate Change. **2013**, 280-317	0
98	A geochronological-constrained stable isotope record of the Upper Triassic Sonsela Member (Chinle Formation) at Petrified Forest National Park (Arizona, USA): Testing for paleoenvironmental linkages with biotic change and the Manicouagan impact. **2022**, 111060	

97	Palynostratigraphical analysis of the late Maastrichtian–early Danian in the Gaviotín Formation, Punta del Este Basin, Uruguay. **2022**, 105728		0
96	The Worst Case: Planetary Defense against a Doomsday Impactor. **2022**, 101493		0
95	Machine learning-based re-classification of the geochemical stratigraphy of the Rajahmundry Traps, India. **2022**, 428, 107594		1
94	Asteroid Extinction Hypothesis. **1981**, 211, 654-654		0
93	Cretaceous Extinctions and Wildfires. **1986**, 234, 261-262		0
92	Comet Showers, Periodic Extinctions, and Iridium. **1986**, 234, 1484-1485		0
91	Comet Showers, Periodic Extinctions, and Iridium. **1986**, 234, 1484-1485		0
90	Response : Comet Showers, Periodic Extinctions, and Iridium. **1986**, 234, 1485-1486		0
89	Response : Comet Showers, Periodic Extinctions, and Iridium. **1986**, 234, 1485-1486		0
88	Erratum: Cover, Vol. 233, no. 4768 (5 September 1986). **1986**, 234, 1486-1486		0
87	Erratum: Sex and Needles, Not Insects and Pigs, Spread AIDS in Florida Town. **1986**, 234, 1486-1486		0
86	Erratum: Cover, Vol. 233, no. 4768 (5 September 1986). **1986**, 234, 1486-1486		0
85	What Drives Plate Motion?.		
84	Theropod dinosaurs had primate-like numbers of telencephalic neurons.		
83	Paleobotany of the uppermost Cretaceous Chorrillo Formation, Santa Cruz Province, Argentina: insights in a freshwater floral community. *Cretaceous Research*, **2022**, 105296	1.8	0
82	Mammals, birds and non-avian reptiles have signature proportions of numbers of neurons across their brain structures: Numbers of neurons increased differently with endothermy in birds and mammals.		1
81	No Consistent Shift in Leaf Dry Mass per Area Across the Cretaceous–Paleogene Boundary. *Frontiers in Plant Science*, 13,	6.2	0
80	The breakup of a long-period comet is not a likely match to the Chicxulub impactor. *Scientific Reports*, **2022**, 12,	4.9	

79	What Drives Plate Motion?.		
78	Internet of Spacecraft for Multi-Planetary Defense and Prosperity. *Signals*, **2022**, 3, 428-467	1.2	
77	Chicxulub Crater Joint Gravity and Magnetic Anomaly Analysis: Structure, Asymmetries, Impact Trajectory and Target Structures. *Pure and Applied Geophysics*,	2.2	
76	Meteorite. **2022**, 689-714		
75	Variation in Organic Matter Across the Cretaceous-Paleogene Boundary in New Zealand Supports the Living Ocean Model of Biotic Recovery. *SSRN Electronic Journal*,	1	
74	Diversity dynamics of microfossils from the Cretaceous to the Neogene show mixed responses to events. *Palaeontology*, **2022**, 65,	2.9	1
73	The punctuated equilibrium of scientific change: a Bayesian network model. *Synthese*, **2022**, 200,	0.8	1
72	Two major extinction events in the evolutionary history of turtles: one caused by a meteorite, the other by hominins.		
71	Dipterocarps used India as a raft from Gondwana to Eurasia.		
70	Does functional redundancy determine the ecological severity of a mass extinction event?. **2022**, 289,		
69	Estimating the Drivers of Diversification of Stoneflies Through Time and the Limits of Their Fossil Record. **2022**, 6,		1
68	A machine-learning framework for the simulation of nuclear deflection of Planet-Killer-Asteroids. **2022**, 115316		
67	Timing and causes of forest fire at the K-Pg boundary. **2022**, 12,		0
66	The Nadir Crater offshore West Africa: A candidate Cretaceous-Paleogene impact structure. **2022**, 8,		0
65	Very long-term periodicity of episodic zircon production and Earth system evolution. **2022**, 104164		
64	Geochemical anomalies caused by meteorite impact and volcanism at the Cretaceous-Paleogene boundary, Wasserfallgraben (Lattengebirge, Germany). **2022**, 105306		
63	Statistical Significance of Mission Parameters on the Deflection Efficiency of Kinetic Impacts: Applications for the Next-generation Kinetic Impactor. **2022**, 3, 186		0
62	Discovering Faint and High Apparent Motion Rate Near-Earth Asteroids Using A Deep Learning Program.		

61	Thalassotitan atrox, a giant predatory mosasaurid (Squamata) from the Upper Maastrichtian Phosphates of Morocco. **2022**, 105315	0
60	Impact Earth: A review of the terrestrial impact record. **2022**, 232, 104112	0
59	Palearctic floras and vegetation of the Cenozoic: A tribute to Zlatko Kvaček. **2022**, 306, 104766	0
58	Meteorite impact crater positions based on paleo-positions and its unrestrained latitudinal distribution. **2022**, 222, 105575	0
57	Paleoenvironmental changes recorded at a late Maastrichtian marine succession of northern South America. **2022**, 119, 104015	0
56	Phanerozoic (541 Ma-present day). **2023**, 157-184	0
55	Asteroid. **2022**, 1-14	0
54	Risiken und Gefährdungen. **2022**, 79-340	0
53	The co-evolution of life and biogeochemical cycles in our planet. **2022**, 22,	0
52	Anomalien in den geologischen Böhern. **2022**, 45-65	0
51	Another one bites the dust: Photosynthetic collapse after the Chicxulub impact.	0
50	Identification of the ejecta deposit formed by the Australasian Tektite Event at Huai Om, northeastern Thailand. **2022**, 57, 1879-1901	0
49	??????????. **2022**,	0
48	Breathless through Time: Oxygen and Animals across Earth's History. 000-000	0
47	Elevated Post K-Pg Export Productivity in the Gulf of Mexico and Caribbean. **2022**, 37,	0
46	Geochemical records of the end-Triassic Crisis preserved in a deep marine section of the Budva Basin, Dinarides, Montenegro.. **2022**, 111250	0
45	Paleozoic Extinctions in Cosmoclimatological Context: Non-Bolide Extraterrestrial Causes for Global Chilling. **2022**, 27,	1
44	Miracles and the Uniformity of Nature. **2022**, 247-263	0

43	Characteristics and Enrichment Genesis of the Platinum Group Elements (PGEs) in Organic Rich Shale of Wufeng and Longmaxi Formation of Upper Ordovician and Lower Silurian in the Sichuan Basin. **2022**, 12, 1363	1
42	Molecular early burst associated with the diversification of birds at the K□g boundary.	1
41	Chicxulub-like Gale impact into an ocean/land interface on Mars: An explanation for the formation of Mount Sharp. **2023**, 390, 115306	0
40	Cretaceous-Paleogene Boundary Clays from Spain and New Zealand: Arsenic Anomaly and the Deccan Traps. 55, 1-8	0
39	Drivers of dispersal and diversification in bromeliads.	0
38	Neuroscience Needs to Test Both Statistical and Scientific Hypotheses. **2022**, 42, 8432-8438	0
37	Can the initial phase of the K/Pg boundary fern spike be reconciled with contemporary models of the Chicxulub impact? New insights from the birthplace of the fern spike concept. **2023**, 309, 104824	0
36	Faunal and stratigraphic analysis of the basal Cretaceous-Paleogene (K-Pg) boundary event deposits, Brazos River, Texas, USA. **2023**, 610, 111334	1
35	Cobaltgruppe: Elemente der neunten Nebengruppe. **2022**, 1-40	0
34	Revolution and Extinction: The Chrono-Economics of Capitalism. **2022**, 9, 283-306	0
33	Sepiolite as paleo-CO2 barometer of dramatic climate change, and a basic element for paleogeographic reconstitution across Cretaceous□Paleogene, Asserdoune boundary, El Kouif region (Algerian□Tunisian border). **2023**, 38,	0
32	Tracing impact events in clay samples with iridium anomaly at and above the Cretaceous/Paleogene boundary at Byala, Eastern Bulgaria. **2022**, 51, 3-16	0
31	Lonar Impact Crater, India: the Best-Preserved Terrestrial Hypervelocity Impact Crater in a Basaltic Terrain as a Potential Global Geopark. **2022**, 14,	0
30	New records of Theropoda from a Late Cretaceous (Campanian-Maastrichtian) locality in the Magallanes-Austral Basin, Patagonia, and insights into end Cretaceous theropod diversity. **2022**, 104163	0
29	Progresses and prospects of impact crater studies.	0
28	Formation of Lunar Basins from Impacts of Leftover Planetesimals. **2022**, 941, L9	0
27	Variation in organic matter across the Cretaceous-Paleogene boundary in New Zealand supports the □living Ocean□ model of biotic recovery. **2022**, 104025	0
26	Shifts in food webs and niche stability shaped survivorship and extinction at the end-Cretaceous. **2022**, 8,	1

25	Theropod dinosaurs had primate-like numbers of telencephalic neurons.	4
24	Gnawing pressure led to the expansion of JAZ genes in angiosperms. **2023**, 230, 123165	0
23	The Impact of GRBs on Exoplanetary Habitability. **2023**, 9, 60	0
22	Measurements of Radioactive 60Fe and 244Pu Deposits on Earth and Moon. **2023**, 1-47	0
21	The Fermi Paradox and Astrobiology. **2023**, 209-266	0
20	An asteroid impact origin of the Hirnantian (end-Ordovician) glaciation and mass extinction. **2023**, 118, 153-159	0
19	Describing the evolution and perturbations to biodiversity using a simple dynamical model.	0
18	A review of common natural disasters as analogs for asteroid impact effects and cascading hazards. **2023**, 116, 1355-1402	0
17	High-latitude Cretaceous–Paleogene transition: New paleoenvironmental and paleoclimatic insights from Seymour Island, Antarctica. **2023**, 180, 102214	0
16	Systematic and Temporal Geochemical Changes in the Upper Deccan Lavas: Implications for the Magma Plumbing System of Flood Basalt Provinces. **2023**, 24,	0
15	Supernovae and the Earth. **2023**, 129, 125-143	0
14	Rocky Mountain paleontology: Digging the past with an eye to the future. **2022**, 59, 93-123	0
13	Significance of Secondary Fe-Oxide and Fe-Sulfide Minerals in Upper Peak Ring Suevite from the Chicxulub Impact Structure. **2023**, 13, 353	0
12	An earliest Paleocene squirrelfish (Teleostei: Beryciformes: Holocentroidea) and its bearing on the timescale of holocentroid evolution. **2023**, 21,	0
11	Extinction in Public. **2023**, 15, 168-186	0
10	Phanerozoic Mass Extinctions. **2023**, 47-57	0
9	How predictable are mass extinction events?. **2023**, 10,	1
8	Reading the sediment archive of the Eastern Campeche Bank (southern Gulf of Mexico): from the aftermath of the Chicxulub impact to Loop Current variability. **2023**, 44,	0

7	From Minerals to Simplest Living Matter: Life Origination Hydrate Theory. **2023**, 71,	0
6	Could theropod dinosaurs have evolved to a human level of intelligence?. **2023**, 531, 975-1006	3
5	Linking a distal ejecta with its source crater: a probabilistic approach applied to tektites. **2023**, 355, 145-155	0
4	Dinosaurs, Extinction Theories for. **2023**,	0
3	Broadening Frontiers in Geoconservation: the Concept of Intangible Geoheritage Represented by the 1755 Lisbon Earthquake. **2023**, 15,	0
2	Asteroid Habitats□living Inside a Hollow Celestial Body. **2023**, 763-785	0
1	Selectivity of mass extinctions: Patterns, processes, and future directions. **2023**, 1,	0