

# Yury N Palyanov

## List of Publications by Year in descending order

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125  
papers

3,004  
citations

172457

29  
h-index

189892

50  
g-index

125  
all docs

125  
docs citations

125  
times ranked

1559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Nitrogen Impurity on Diamond Crystal Growth Processes. <i>Crystal Growth and Design</i> , 2010, 10, 3169-3175.	3.0	197
2	Mantle–slab interaction and redox mechanism of diamond formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20408-20413.	7.1	163
3	Germanium: a new catalyst for diamond synthesis and a new optically active impurity in diamond. <i>Scientific Reports</i> , 2015, 5, 14789.	3.3	145
4	Optical and microwave control of germanium-vacancy center spins in diamond. <i>Physical Review B</i> , 2017, 96, .	3.2	125
5	Germanium-Vacancy Color Center in Diamond as a Temperature Sensor. <i>ACS Photonics</i> , 2018, 5, 765-770.	6.6	105
6	The role of mantle ultrapotassic fluids in diamond formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9122-9127.	7.1	97
7	The effect of composition of mantle fluids/melts on diamond formation processes. <i>Lithos</i> , 2009, 112, 690-700.	1.4	79
8	Fluid regime and diamond formation in the reduced mantle: Experimental constraints. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5820-5834.	3.9	79
9	The system K <sub>2</sub> CO <sub>3</sub> -MgCO <sub>3</sub> at 6 GPa and 900-1450 ÅC. <i>American Mineralogist</i> , 2013, 98, 1593-1603.	1.9	79
10	High-temperature calibration of a multi-anvil high pressure apparatus. <i>High Pressure Research</i> , 2015, 35, 139-147.	1.2	71
11	High-Pressure Synthesis and Characterization of Ge-Doped Single Crystal Diamond. <i>Crystal Growth and Design</i> , 2016, 16, 3510-3518.	3.0	68
12	Diamond Growth and Morphology under the Influence of Impurity Adsorption. <i>Crystal Growth and Design</i> , 2013, 13, 5411-5419.	3.0	58
13	Conditions of diamond formation through carbonate-silicate interaction. <i>European Journal of Mineralogy</i> , 2005, 17, 207-214.	1.3	57
14	Partitioning of H <sub>2</sub> O between olivine and carbonate–silicate melts at 6.3 GPa and 1400 ÅC: Implications for kimberlite formation. <i>Earth and Planetary Science Letters</i> , 2013, 383, 58-67.	4.4	57
15	Effect of H <sub>2</sub> O on Diamond Crystal Growth in Metal–Carbon Systems. <i>Crystal Growth and Design</i> , 2012, 12, 5571-5578.	3.0	55
16	High-pressure crystallization and properties of diamond from magnesium-based catalysts. <i>CrystEngComm</i> , 2017, 19, 4459-4475.	2.6	54
17	Carbonatite melt–peridotite interaction at 5.5–7.0 GPa: Implications for metasomatism in lithospheric mantle. <i>Lithos</i> , 2016, 248-251, 66-79.	1.4	49
18	Revealing of dislocations in diamond crystals by the selective etching method. <i>Journal of Crystal Growth</i> , 2006, 293, 469-474.	1.5	48

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19	Melting and subsolidus phase relations in the system Na <sub>2</sub> CO <sub>3</sub> -MgCO <sub>3</sub> -H <sub>2</sub> O at 6 GPa and the stability of Na <sub>2</sub> Mg(CO <sub>3</sub> ) <sub>2</sub> in the upper mantle. <i>American Mineralogist</i> , 2013, 98, 2172-2182.	1.9	47
20	Melting experiments on the Udachnaya kimberlite at 6.3–7.5 GPa: Implications for the role of H <sub>2</sub> O in magma generation and formation of hydrous olivine. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 101, 133-155.	3.9	47
21	Carbon and nitrogen speciation in nitrogen-rich C–O–H–N fluids at 5.5–7.8 GPa. <i>Earth and Planetary Science Letters</i> , 2017, 460, 234-243.	4.4	45
22	New experimental data on phase relations for the system Na <sub>2</sub> CO <sub>3</sub> -CaCO <sub>3</sub> at 6 GPa and 900-1400 °C. <i>American Mineralogist</i> , 2013, 98, 2164-2171.	1.9	42
23	Incorporation of Large Impurity Atoms into the Diamond Crystal Lattice: EPR of Split-Vacancy Defects in Diamond. <i>Crystals</i> , 2017, 7, 237.	2.2	41
24	Monitoring diamond crystal growth, a combined experimental and SIMS study. <i>European Journal of Mineralogy</i> , 2008, 20, 365-374.	1.3	40
25	Diamond Growth from a Phosphorus–Carbon System at High Pressure High Temperature Conditions. <i>Crystal Growth and Design</i> , 2011, 11, 2599-2605.	3.0	38
26	Phase relations in the system FeCO <sub>3</sub> -CaCO <sub>3</sub> at 6 GPa and 900-1700 °C and its relation to the system CaCO <sub>3</sub> -FeCO <sub>3</sub> -MgCO <sub>3</sub> . <i>American Mineralogist</i> , 2014, 99, 773-785.	1.9	38
27	EPR study of Si- and Ge-related defects in HPHT diamonds synthesized from Mg-based solvent-catalysts. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2623-2628.	1.8	35
28	High-pressure synthesis and characterization of Sn-doped single crystal diamond. <i>Carbon</i> , 2019, 143, 769-775.	10.3	31
29	Effect of oxygen fugacity on the H <sub>2</sub> O storage capacity of forsterite in the carbon-saturated systems. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4793-4806.	3.9	30
30	Phase relations on the K <sub>2</sub> CO <sub>3</sub> -CaCO <sub>3</sub> -MgCO <sub>3</sub> join at 6 GPa and 900–1400 °C: Implications for incipient melting in carbonated mantle domains. <i>American Mineralogist</i> , 2016, 101, 437-447.	1.9	28
31	Na-Ca carbonates synthesized under upper-mantle conditions: Raman spectroscopic and X-ray diffraction studies. <i>European Journal of Mineralogy</i> , 2015, 27, 175-184.	1.3	27
32	Crystal Growth of Diamond. , 2015, , 671-713.		27
33	Phase relationships in the system K <sub>2</sub> CO <sub>3</sub> -CaCO <sub>3</sub> at 6 GPa and 900-1450 °C. <i>American Mineralogist</i> , 2015, 100, 223-232.	1.9	26
34	Revealing of planar defects and partial dislocations in large synthetic diamond crystals by the selective etching. <i>Journal of Crystal Growth</i> , 2007, 306, 458-464.	1.5	25
35	Graphitization of <sup>13</sup> C enriched fine-grained graphitic material under high-pressure annealing. <i>Carbon</i> , 2019, 141, 323-330.	10.3	24
36	Crystal growth and perfection of large octahedral synthetic diamonds. <i>Journal of Crystal Growth</i> , 2011, 317, 32-38.	1.5	23

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37	The system $\text{Na}_2\text{CO}_3\text{-CaCO}_3\text{-MgCO}_3$ at 6â€¦GPa and 900â€¦1250Â°C and its relation to the partial melting of carbonated mantle. High Pressure Research, 2016, 36, 23-41.	1.2	23
38	Carbon and Nitrogen Speciation in N-poor C-O-H-N Fluids at 6.3â€‰GPa and 1100â€¦1400â€‰Â°C. Scientific Reports, 2017, 7, 706.	3.3	23
39	Morphology of diamond crystals grown in magnesium-based systems at high temperatures and high pressures. Journal of Crystal Growth, 2015, 426, 276-282.	1.5	22
40	A DFT calculation of EPR parameters of a germanium-vacancy defect in diamond. Diamond and Related Materials, 2017, 76, 86-89.	3.9	22
41	Thermal expansion of iron carbides, $\text{Fe}_7\text{C}_3$ and $\text{Fe}_3\text{C}$ , at 297â€¦911 K determined by in situ X-ray diffraction. Journal of Alloys and Compounds, 2015, 628, 102-106.	5.5	21
42	Effect of $\text{CO}_2$ on crystallization and properties of diamond from ultra-alkaline carbonate melt. Lithos, 2016, 265, 339-350.	1.4	21
43	Effect of crystal defects on diamond morphology during dissolution in the mantle. American Mineralogist, 2015, 100, 1528-1532.	1.9	19
44	Stability of phlogopite in ultrapotassic kimberlite-like systems at 5.5â€¦7.5 GPa. Contributions To Mineralogy and Petrology, 2017, 172, 1.	3.1	19
45	Formation of various types of graphite inclusions in diamond: Experimental data. Lithos, 2009, 112, 683-689.	1.4	18
46	Distribution of OK1, N3 and NU1 defects in diamond crystals of different habits. European Journal of Mineralogy, 2012, 24, 645-650.	1.3	17
47	The system $\text{Na}_2\text{CO}_3\text{-FeCO}_3$ at 6 GPa and its relation to the system $\text{Na}_2\text{CO}_3\text{-FeCO}_3\text{-MgCO}_3$ . American Mineralogist, 2015, 100, 130-137.	1.9	17
48	Sulfidation of silicate mantle by reduced S-bearing metasomatic fluids and melts. Geology, 2016, 44, 271-274.	4.4	17
49	Iron carbide as a source of carbon for graphite and diamond formation under lithospheric mantle P-T parameters. Lithos, 2017, 286-287, 151-161.	1.4	17
50	Aluminum Nitride Crystal Growth from an $\text{Al-N}$ System at 6.0 GPa and 1800 Â°C. Crystal Growth and Design, 2010, 10, 2563-2570.	3.0	16
51	Effect of nitrogen impurity on the dislocation structure of large HPHT synthetic diamond crystals. Journal of Crystal Growth, 2014, 386, 162-167.	1.5	16
52	Diamond Crystallization from an Antimonyâ€¦Carbon System under High Pressure and Temperature. Crystal Growth and Design, 2015, 15, 2539-2544.	3.0	16
53	HPHT growth and characterization of diamond from a copper-carbon system. Diamond and Related Materials, 2016, 69, 198-206.	3.9	16
54	Synthesis of diamonds with mineral, fluid and melt inclusions. Lithos, 2016, 265, 292-303.	1.4	16

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55	Phase relations in the Fe-Fe 3 C-Fe 3 N system at 7.8 GPa and 1350 Â°C: Implications for carbon and nitrogen hosts in Fe O -saturated upper mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 265, 43-53.	1.9	16
56	HPHT Diamond Crystallization in the Mg-Si-C System: Effect of Mg/Si Composition. <i>Crystals</i> , 2017, 7, 119.	2.2	16
57	Phase relations in the K <sub>2</sub> CO <sub>3</sub> -FeCO <sub>3</sub> and MgCO <sub>3</sub> -FeCO <sub>3</sub> systems at 6 GPa and 900-1700° C. <i>European Journal of Mineralogy</i> , 2015, 27, 487-499.	1.3	15
58	Experimental Petrology Applied to Natural Diamond Growth. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 88, 755-808.	4.8	15
59	Diamond crystallization from a tin-carbon system at HPHT conditions. <i>Diamond and Related Materials</i> , 2015, 58, 40-45.	3.9	13
60	The dislocation structure of diamond crystals grown on seeds in the Mg-C system. <i>Diamond and Related Materials</i> , 2016, 70, 1-6.	3.9	13
61	Multiscale characterization of <sup>13</sup> C-enriched fine-grained graphitic materials for chemical and electrochemical applications. <i>Carbon</i> , 2017, 124, 161-169.	10.3	13
62	Carbon isotope fractionation during experimental crystallisation of diamond from carbonate fluid at mantle conditions. <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	11
63	Sulfide Formation as a Result of Sulfate Subduction into Silicate Mantle (Experimental Modeling) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	2.0	11
64	The Fe-C-O-N system at 6.3-7.8 GPa and 1200-1400Â°C: implications for deep carbon and nitrogen cycles. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	11
65	Effect of Oxygen on Diamond Crystallization in Metal-Carbon Systems. <i>ACS Omega</i> , 2020, 5, 18376-18383.	3.5	11
66	Effect of sulfur on diamond growth and morphology in metal-carbon systems. <i>CrystEngComm</i> , 2020, 22, 5497-5508.	2.6	11
67	The role of water in generation of group II kimberlite magmas: Constraints from multiple saturation experiments. <i>American Mineralogist</i> , 2014, 99, 2292-2302.	1.9	10
68	Silicon-containing defects in HPHT diamond synthesized in Mg-Si-C system. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2460-2462.	1.8	10
69	Wüstite stability in the presence of a CO <sub>2</sub> -fluid and a carbonate-silicate melt: Implications for the graphite/diamond formation and generation of Fe-rich mantle metasomatic agents. <i>Lithos</i> , 2016, 244, 20-29.	1.4	10
70	Experimental and Theoretical Evidence for Surface-Induced Carbon and Nitrogen Fractionation during Diamond Crystallization at High Temperatures and High Pressures. <i>Crystals</i> , 2017, 7, 190.	2.2	10
71	Effect of the solvent-catalyst composition on diamond crystallization in the Mg-Ge-C system. <i>Diamond and Related Materials</i> , 2018, 89, 1-9.	3.9	10
72	Decarbonation Reactions Involving Ankerite and Dolomite under upper Mantle P,T-Parameters: Experimental Modeling. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 715.	2.0	10

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73	EPR study of the hydrogen center in HPHT diamonds grown in carbonate medium. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2274-2278.	1.8	9
74	The influence of HTHP treatment on the OK1 and N3 centers in natural diamond crystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2474-2479.	1.8	9
75	Effect of nitrogen impurity on etching of synthetic diamond crystals. <i>Journal of Crystal Growth</i> , 2015, 430, 71-74.	1.5	9
76	Effect of Rare-Earth Element Oxides on Diamond Crystallization in Mg-Based Systems. <i>Crystals</i> , 2019, 9, 300.	2.2	9
77	X-ray topography of diamond using forbidden reflections: which defects do we really see?. <i>Journal of Applied Crystallography</i> , 2011, 44, 65-72.	4.5	8
78	Photoluminescence of HPHT diamonds synthesized in the Mg-Ge-C system. <i>Diamond and Related Materials</i> , 2017, 79, 145-149.	3.9	8
79	Specific Internal Structure of Diamonds from Zarnitsa Kimberlite Pipe. <i>Crystals</i> , 2017, 7, 133.	2.2	8
80	Step Patterns on {100} Faces of Diamond Crystals As-Grown in Mg-Based Systems. <i>Crystal Growth and Design</i> , 2018, 18, 152-158.	3.0	8
81	Dislocation etching of diamond crystals grown in Mg-C system with the addition of silicon. <i>Diamond and Related Materials</i> , 2018, 88, 67-73.	3.9	8
82	Hydrogenation of carbon at 5.5–7.8 GPa and 1100–1400 °C: Implications to formation of hydrocarbons in reduced mantles of terrestrial planets. <i>Physics of the Earth and Planetary Interiors</i> , 2019, 291, 12-23.	1.9	8
83	Solubility of carbon and nitrogen in a sulfur-bearing iron melt: Constraints for siderophile behavior at upper mantle conditions. <i>American Mineralogist</i> , 2019, 104, 1857-1865.	1.9	8
84	Diamonds from the Mir Pipe (Yakutia): Spectroscopic Features and Annealing Studies. <i>Crystals</i> , 2021, 11, 366.	2.2	8
85	Fate of fluids at the base of subcratonic lithosphere: Experimental constraints at 5.5–7.8 GPa and 1150–1350 deg C. <i>Lithos</i> , 2018, 318-319, 419-433.	1.4	7
86	Diamond formation in an electric field under deep Earth conditions. <i>Science Advances</i> , 2021, 7, .	10.3	7
87	Unusual growth macrolayers on {100} faces of diamond crystals from magnesium-based systems. <i>Journal of Crystal Growth</i> , 2016, 455, 76-82.	1.5	6
88	Diamond crystallization in a CO <sub>2</sub> -rich alkaline carbonate melt with a nitrogen additive. <i>Journal of Crystal Growth</i> , 2016, 449, 119-128.	1.5	6
89	An effect of reduced S-rich fluids on diamond formation under mantle-slab interaction. <i>Lithos</i> , 2019, 336-337, 27-39.	1.4	6
90	Cymrite as mineral clathrate: An overlooked redox insensitive transporter of nitrogen in the mantle. <i>Gondwana Research</i> , 2020, 79, 70-86.	6.0	6

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91	Effect of HPHT Treatment on Spectroscopic Features of Natural Type Ib-IaA Diamonds Containing Y Centers. <i>Crystals</i> , 2020, 10, 378.	2.2	6
92	Rare-earth metal catalysts for high-pressure synthesis of rare diamonds. <i>Scientific Reports</i> , 2021, 11, 8421.	3.3	6
93	<sc>EPR</sc> study of impurity defects in diamonds grown in carbonate medium. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2074-2077.	1.8	5
94	Graphite and diamond formation via the interaction of iron carbide and Fe,Ni-sulfide under mantle P&T parameters. <i>Doklady Earth Sciences</i> , 2016, 471, 1144-1148.	0.7	5
95	Phase Relations in the Harzburgite-Hydrous Carbonate Melt at 5.5-7.5 GPa and 1200-1350°C. <i>Petrology</i> , 2018, 26, 575-587.	0.9	5
96	Spin Relaxation of the Neutral Germanium-Vacancy Center in Diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800193.	1.8	5
97	Experimental Modeling of Silicate and Carbonate Sulfidation under Lithospheric Mantle P,T-Parameters. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 425.	2.0	5
98	Crystallization of Diamond from Melts of Europium Salts. <i>Crystals</i> , 2020, 10, 376.	2.2	5
99	EPR of synthetic diamond heavily doped with phosphorus. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2568-2571.	1.8	4
100	Stability of methane in reduced C-O-H fluid at 6.3 GPa and 1300-1400°C. <i>Doklady Earth Sciences</i> , 2017, 474, 680-683.	0.7	4
101	Optical and electrical properties of synthetic single-crystal diamond under high-fluence ion irradiation. <i>Journal of Surface Investigation</i> , 2017, 11, 619-624.	0.5	4
102	Formation of Water-Bearing Defects in Olivine in the Presence of Water-Hydrocarbon Fluid at 6.3 GPa and 1200°C. <i>Doklady Earth Sciences</i> , 2018, 483, 1451-1453.	0.7	4
103	Correction to Germanium-Vacancy Color Center in Diamond as a Temperature Sensor. <i>ACS Photonics</i> , 2018, 5, 4710-4710.	6.6	4
104	High-pressure synthesis and characterization of diamond from europium containing systems. <i>Carbon</i> , 2021, 182, 815-824.	10.3	4
105	Crystallomorphological and Crystallochemical Indicators of Diamond Formation Conditions. <i>Crystallography Reports</i> , 2021, 66, 142-155.	0.6	4
106	Nitrogen and hydrogen aggregation in natural octahedral and cuboid diamonds. <i>Geochemical Journal</i> , 2017, 51, 181-192.	1.0	4
107	Distribution of light alkanes in the reaction of graphite hydrogenation at pressure of 0.1-7.8 GPa and temperatures of 1000-1350°C. <i>High Pressure Research</i> , 2018, 38, 468-481.	1.2	3
108	Graphite and Diamond Formation in the Carbide-Oxide-Carbonate Interactions (Experimental) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.0	3

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109	Carbon Isotope Composition of Diamond Crystals Grown Via Redox Mechanism. <i>Geochemistry International</i> , 2018, 56, 1398-1404.	0.7	3
110	Manifestation of diamond sectoriality during dissolution and graphitization. <i>Journal of Crystal Growth</i> , 2018, 502, 1-6.	1.5	3
111	Processes and Conditions of the Origin for Fe <sup>3+</sup> -Bearing MagnesiowÄ¼stite under Lithospheric Mantle Pressures and Temperatures. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 474.	2.0	3
112	Magnetic Properties of 1D Ironâ€“Sulfur Compounds Formed Inside Singleâ€“Walled Carbon Nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000291.	2.4	3
113	Formation of Spessartine and CO <sub>2</sub> via Rhodochrosite Decarbonation along a Hot Subduction P-T Path. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 703.	2.0	3
114	Ranges of 10â€“350 keV H and H <sup>2</sup> ions in (1 1 1) diamond. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 406, 634-637.	1.4	2
115	Phases of the Feâ€“Câ€“N system as hosts of mantle carbon and nitrogen: Experimental studies at 7.8 GPa and 1350Â°C. <i>Doklady Earth Sciences</i> , 2017, 475, 780-783.	0.7	2
116	Influence of a silicon impurity on growth of diamond crystals in the Mg-C system. <i>Diamond and Related Materials</i> , 2018, 87, 27-34.	3.9	2
117	Phase Relations in the FeO-Fe <sub>3</sub> C-Fe <sub>3</sub> N System at 7.8 GPa and 1350 Â°C: Implications for Oxidation of Native Iron at 250 km. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 984.	2.0	2
118	Diamond formation during sulfidation of metalâ€“carbon melts. <i>Diamond and Related Materials</i> , 2021, 120, 108660.	3.9	2
119	Phase relations in the Fe-Fe <sub>3</sub> C-Fe <sub>3</sub> N system at 7.8â€“11.5 GPa and 1150Â°C: implications for C and N hosts in metal-saturated mantle. <i>High Pressure Research</i> , 2021, 41, 392-404.	1.2	2
120	Experimental Modeling of Ankeriteâ€“Pyrite Interaction under Lithospheric Mantle Pâ€“T Parameters: Implications for Graphite Formation as a Result of Ankerite Sulfidation. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1267.	2.0	2
121	Raman scattering in the submicrometer diamond membrane formed by the lift-off technique. <i>Bulletin of the Lebedev Physics Institute</i> , 2017, 44, 210-214.	0.6	1
122	Formation of the Fe,Mg-Silicates, FeO, and Graphite (Diamond) Assemblage as a Result of Cohenite Oxidation under Lithospheric Mantle Conditions. <i>Doklady Earth Sciences</i> , 2018, 479, 335-338.	0.7	1
123	Experimental Modeling of CO-Forming Processes Involving Cohenite and CO <sub>2</sub> -Fluid in a Silicate Mantle. <i>Doklady Earth Sciences</i> , 2018, 483, 1427-1430.	0.7	1
124	Conditions of Formation of Ironâ€“Carbon Melt Inclusions in Garnet and Orthopyroxene under P-T Conditions of Lithospheric Mantle. <i>Petrology</i> , 2018, 26, 565-574.	0.9	1
125	The Many Facets of Diamond Crystals. <i>Crystals</i> , 2018, 8, 72.	2.2	1