

# 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  
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125  
docs citations

125  
times ranked

1559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Petrology Applied to Natural Diamond Growth. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 88, 755-808.	4.8	15
2	Diamond formation in an electric field under deep Earth conditions. <i>Science Advances</i> , 2021, 7, .	10.3	7
3	Diamonds from the Mir Pipe (Yakutia): Spectroscopic Features and Annealing Studies. <i>Crystals</i> , 2021, 11, 366.	2.2	8
4	Rare-earth metal catalysts for high-pressure synthesis of rare diamonds. <i>Scientific Reports</i> , 2021, 11, 8421.	3.3	6
5	High-pressure synthesis and characterization of diamond from europium containing systems. <i>Carbon</i> , 2021, 182, 815-824.	10.3	4
6	Crystallomorphological and Crystallochemical Indicators of Diamond Formation Conditions. <i>Crystallography Reports</i> , 2021, 66, 142-155.	0.6	4
7	Diamond formation during sulfidation of metalâ€“carbon melts. <i>Diamond and Related Materials</i> , 2021, 120, 108660.	3.9	2
8	Phase relations in the Fe-Fe <sub>3</sub> C-Fe <sub>3</sub> N system at 7.8â€“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
9	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
10	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
11	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
12	Effect of Oxygen on Diamond Crystallization in Metalâ€“Carbon Systems. <i>ACS Omega</i> , 2020, 5, 18376-18383.	3.5	11
13	Effect of sulfur on diamond growth and morphology in metalâ€“carbon systems. <i>CrystEngComm</i> , 2020, 22, 5497-5508.	2.6	11
14	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
15	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
16	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
17	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
18	Crystallization of Diamond from Melts of Europium Salts. <i>Crystals</i> , 2020, 10, 376.	2.2	5

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19	Effect of Rare-Earth Element Oxides on Diamond Crystallization in Mg-Based Systems. <i>Crystals</i> , 2019, 9, 300.	2.2	9
20	Experimental Modeling of Silicate and Carbonate Sulfidation under Lithospheric Mantle P,T-Parameters. <i>Minerals</i> (Basel, Switzerland), 2019, 9, 425.	2.0	5
21	Processes and Conditions of the Origin for Fe <sup>3+</sup> -Bearing MagnesiowÄ¼stite under Lithospheric Mantle Pressures and Temperatures. <i>Minerals</i> (Basel, Switzerland), 2019, 9, 474.	2.0	3
22	Hydrogenation of carbon at 5.5â€“7.8â€“GPa and 1100â€“1400â€“Â°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
23	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
24	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
25	High-pressure synthesis and characterization of Sn-doped single crystal diamond. <i>Carbon</i> , 2019, 143, 769-775.	10.3	31
26	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
27	Germanium-Vacancy Color Center in Diamond as a Temperature Sensor. <i>ACS Photonics</i> , 2018, 5, 765-770.	6.6	105
28	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
29	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
30	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
31	Formation of Water-Bearing Defects in Olivine in the Presence of Waterâ€“Hydrocarbon Fluid at 6.3 GPa and 1200Â°C. <i>Doklady Earth Sciences</i> , 2018, 483, 1451-1453.	0.7	4
32	Distribution of light alkanes in the reaction of graphite hydrogenation at pressure of 0.1â€“7.8â€“GPa and temperatures of 1000â€“1350Â°C. <i>High Pressure Research</i> , 2018, 38, 468-481.	1.2	3
33	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
34	Graphite and Diamond Formation in the Carbideâ€“Oxideâ€“Carbonate Interactions (Experimental) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	2.0	3
35	Sulfide Formation as a Result of Sulfate Subduction into Silicate Mantle (Experimental Modeling) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 11</i>	2.0	11
36	Carbon Isotope Composition of Diamond Crystals Grown Via Redox Mechanism. <i>Geochemistry International</i> , 2018, 56, 1398-1404.	0.7	3

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37	Phase Relations in the Harzburgite-Hydrous Carbonate Melt at 5.5-7.5 GPa and 1200-1350 Å°C. <i>Petrology</i> , 2018, 26, 575-587.	0.9	5
38	Correction to Germanium-Vacancy Color Center in Diamond as a Temperature Sensor. <i>ACS Photonics</i> , 2018, 5, 4710-4710.	6.6	4
39	Manifestation of diamond sectoriality during dissolution and graphitization. <i>Journal of Crystal Growth</i> , 2018, 502, 1-6.	1.5	3
40	The Fe-C-O-H-N system at 6.3-7.8 GPa and 1200-1400 Å°C: implications for deep carbon and nitrogen cycles. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	11
41	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
42	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
43	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
44	The Many Facets of Diamond Crystals. <i>Crystals</i> , 2018, 8, 72.	2.2	1
45	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
46	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
47	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
48	Phase relations in the Fe-Fe 3 C-Fe 3 N system at 7.8 GPa and 1350 Å°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
49	Carbon and Nitrogen Speciation in N-poor C-O-H-N Fluids at 6.3 GPa and 1100-1400 Å°C. <i>Scientific Reports</i> , 2017, 7, 706.	3.3	23
50	A DFT calculation of EPR parameters of a germanium-vacancy defect in diamond. <i>Diamond and Related Materials</i> , 2017, 76, 86-89.	3.9	22
51	Iron carbide as a source of carbon for graphite and diamond formation under lithospheric mantle P-T parameters. <i>Lithos</i> , 2017, 286-287, 151-161.	1.4	17
52	Stability of phlogopite in ultrapotassic kimberlite-like systems at 5.5-7.5 GPa. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	19
53	Ranges of 10-350 keV H and H 2 ions in (1 1 1) diamond. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 406, 634-637.	1.4	2
54	Photoluminescence of HPHT diamonds synthesized in the Mg-Ge-C system. <i>Diamond and Related Materials</i> , 2017, 79, 145-149.	3.9	8

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55	Optical and microwave control of germanium-vacancy center spins in diamond. <i>Physical Review B</i> , 2017, 96, .	3.2	125
56	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
57	Stability of methane in reduced C-H fluid at 6.3 GPa and 1300-1400°C. <i>Doklady Earth Sciences</i> , 2017, 474, 680-683.	0.7	4
58	Phases of the Fe-C-N system as hosts of mantle carbon and nitrogen: Experimental studies at 7.8 GPa and 1350°C. <i>Doklady Earth Sciences</i> , 2017, 475, 780-783.	0.7	2
59	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
60	High-pressure crystallization and properties of diamond from magnesium-based catalysts. <i>CrystEngComm</i> , 2017, 19, 4459-4475.	2.6	54
61	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
62	HPHT Diamond Crystallization in the Mg-Si-C System: Effect of Mg/Si Composition. <i>Crystals</i> , 2017, 7, 119.	2.2	16
63	Specific Internal Structure of Diamonds from Zarnitsa Kimberlite Pipe. <i>Crystals</i> , 2017, 7, 133.	2.2	8
64	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
65	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
66	Nitrogen and hydrogen aggregation in natural octahedral and cuboid diamonds. <i>Geochemical Journal</i> , 2017, 51, 181-192.	1.0	4
67	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
68	High-Pressure Synthesis and Characterization of Ge-Doped Single Crystal Diamond. <i>Crystal Growth and Design</i> , 2016, 16, 3510-3518.	3.0	68
69	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
70	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
71	HPHT growth and characterization of diamond from a copper-carbon system. <i>Diamond and Related Materials</i> , 2016, 69, 198-206.	3.9	16
72	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

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73	Synthesis of diamonds with mineral, fluid and melt inclusions. <i>Lithos</i> , 2016, 265, 292-303.	1.4	16
74	Effect of CO <sub>2</sub> on crystallization and properties of diamond from ultra-alkaline carbonate melt. <i>Lithos</i> , 2016, 265, 339-350.	1.4	21
75	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
76	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
77	The system Na <sub>2</sub> CO <sub>3</sub> -CaCO <sub>3</sub> -MgCO <sub>3</sub> at 6â€¦GPa and 900â€¦1250Â°C and its relation to the partial melting of carbonated mantle. <i>High Pressure Research</i> , 2016, 36, 23-41.	1.2	23
78	Carbonatite meltâ€¦peridotite interaction at 5.5â€¦7.0 GPa: Implications for metasomatism in lithospheric mantle. <i>Lithos</i> , 2016, 248-251, 66-79.	1.4	49
79	Sulfidation of silicate mantle by reduced S-bearing metasomatic fluids and melts. <i>Geology</i> , 2016, 44, 271-274.	4.4	17
80	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 900â€¦1400 Â°C: Implications for incipient melting in carbonated mantle domains. <i>American Mineralogist</i> , 2016, 101, 437-447.	1.9	28
81	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
82	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
83	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
84	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 900â€¦1700Â° C. <i>European Journal of Mineralogy</i> , 2015, 27, 487-499.	1.3	15
85	Thermal expansion of iron carbides, Fe <sub>7</sub> C <sub>3</sub> and Fe <sub>3</sub> C, at 297â€¦911 K determined by in situ X-ray diffraction. <i>Journal of Alloys and Compounds</i> , 2015, 628, 102-106.	5.5	21
86	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
87	The system Na <sub>2</sub> CO <sub>3</sub> -FeCO <sub>3</sub> at 6 GPa and its relation to the system Na <sub>2</sub> CO <sub>3</sub> -FeCO <sub>3</sub> -MgCO <sub>3</sub> . <i>American Mineralogist</i> , 2015, 100, 130-137.	1.9	17
88	Effect of nitrogen impurity on etching of synthetic diamond crystals. <i>Journal of Crystal Growth</i> , 2015, 430, 71-74.	1.5	9
89	Effect of crystal defects on diamond morphology during dissolution in the mantle. <i>American Mineralogist</i> , 2015, 100, 1528-1532.	1.9	19
90	Diamond crystallization from a tinâ€¦carbon system at HPHT conditions. <i>Diamond and Related Materials</i> , 2015, 58, 40-45.	3.9	13

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91	Morphology of diamond crystals grown in magnesium-based systems at high temperatures and high pressures. <i>Journal of Crystal Growth</i> , 2015, 426, 276-282.	1.5	22
92	High-temperature calibration of a multi-anvil high pressure apparatus. <i>High Pressure Research</i> , 2015, 35, 139-147.	1.2	71
93	Diamond Crystallization from an Antimony-Carbon System under High Pressure and Temperature. <i>Crystal Growth and Design</i> , 2015, 15, 2539-2544.	3.0	16
94	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
95	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
96	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
97	Crystal Growth of Diamond. , 2015, , 671-713.		27
98	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
99	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
100	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
101	Effect of nitrogen impurity on the dislocation structure of large HPHT synthetic diamond crystals. <i>Journal of Crystal Growth</i> , 2014, 386, 162-167.	1.5	16
102	The system K <sub>2</sub> CO <sub>3</sub> -MgCO <sub>3</sub> at 6 GPa and 900-1450 °C. <i>American Mineralogist</i> , 2013, 98, 1593-1603.	1.9	79
103	Partitioning of H <sub>2</sub> O between olivine and carbonate-silicate melts at 6.3 GPa and 1400 °C: Implications for kimberlite formation. <i>Earth and Planetary Science Letters</i> , 2013, 383, 58-67.	4.4	57
104	Diamond Growth and Morphology under the Influence of Impurity Adsorption. <i>Crystal Growth and Design</i> , 2013, 13, 5411-5419.	3.0	58
105	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
106	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
107	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
108	<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

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109	Melting experiments on the Udachnaya kimberlite at 6.3–7.5GPa: 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
110	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
111	Distribution of OK1, N3 and NU1 defects in diamond crystals of different habits. <i>European Journal of Mineralogy</i> , 2012, 24, 645-650.	1.3	17
112	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
113	Crystal growth and perfection of large octahedral synthetic diamonds. <i>Journal of Crystal Growth</i> , 2011, 317, 32-38.	1.5	23
114	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
115	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
116	Effect of Nitrogen Impurity on Diamond Crystal Growth Processes. <i>Crystal Growth and Design</i> , 2010, 10, 3169-3175.	3.0	197
117	Aluminum Nitride Crystal Growth from an Al–N System at 6.0 GPa and 1800 °C. <i>Crystal Growth and Design</i> , 2010, 10, 2563-2570.	3.0	16
118	The effect of composition of mantle fluids/melts on diamond formation processes. <i>Lithos</i> , 2009, 112, 690-700.	1.4	79
119	Formation of various types of graphite inclusions in diamond: Experimental data. <i>Lithos</i> , 2009, 112, 683-689.	1.4	18
120	Fluid regime and diamond formation in the reduced mantle: Experimental constraints. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5820-5834.	3.9	79
121	Monitoring diamond crystal growth, a combined experimental and SIMS study. <i>European Journal of Mineralogy</i> , 2008, 20, 365-374.	1.3	40
122	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
123	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
124	Revealing of dislocations in diamond crystals by the selective etching method. <i>Journal of Crystal Growth</i> , 2006, 293, 469-474.	1.5	48
125	Conditions of diamond formation through carbonate-silicate interaction. <i>European Journal of Mineralogy</i> , 2005, 17, 207-214.	1.3	57