

# Hitoshi Sumiya

## List of Publications by Year in descending order

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158  
papers

7,640  
citations

66234

42  
h-index

54797

84  
g-index

160  
all docs

160  
docs citations

160  
times ranked

6337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of discrete time-crystalline order in a disordered dipolar many-body system. <i>Nature</i> , 2017, 543, 221-225.	13.7	689
2	Ultrahard polycrystalline diamond from graphite. <i>Nature</i> , 2003, 421, 599-600.	13.7	676
3	High-Precision Nanoscale Temperature Sensing Using Single Defects in Diamond. <i>Nano Letters</i> , 2013, 13, 2738-2742.	4.5	572
4	Hybrid Quantum Circuit with a Superconducting Qubit Coupled to a Spin Ensemble. <i>Physical Review Letters</i> , 2011, 107, 220501.	2.9	335
5	Subpicotesla Diamond Magnetometry. <i>Physical Review X</i> , 2015, 5, .	2.8	279
6	Nanoscale nuclear magnetic resonance with chemical resolution. <i>Science</i> , 2017, 357, 67-71.	6.0	240
7	All-Optical Initialization, Readout, and Coherent Preparation of Single Silicon-Vacancy Spins in Diamond. <i>Physical Review Letters</i> , 2014, 113, 263602.	2.9	216
8	High-pressure synthesis of high-purity diamond crystal. <i>Diamond and Related Materials</i> , 1996, 5, 1359-1365.	1.8	193
9	Real-Time Background-Free Selective Imaging of Fluorescent Nanodiamonds in Vivo. <i>Nano Letters</i> , 2012, 12, 5726-5732.	4.5	177
10	Electronic structure of the negatively charged silicon-vacancy center in diamond. <i>Physical Review B</i> , 2014, 89, .	1.1	175
11	Hardness and deformation microstructures of nano-polycrystalline diamonds synthesized from various carbons under high pressure and high temperature. <i>Journal of Materials Research</i> , 2007, 22, 2345-2351.	1.2	168
12	Crystalline perfection of high purity synthetic diamond crystal. <i>Journal of Crystal Growth</i> , 1997, 178, 485-494.	0.7	120
13	Formation of pure polycrystalline diamond by direct conversion of graphite at high pressure and high temperature. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 143-144, 593-600.	0.7	118
14	Title is missing!. <i>Journal of Materials Science</i> , 2000, 35, 1181-1186.	1.7	115
15	Microstructure features of polycrystalline diamond synthesized directly from graphite under static high pressure. <i>Journal of Materials Science</i> , 2004, 39, 445-450.	1.7	112
16	Indentation hardness of nano-polycrystalline diamond prepared from graphite by direct conversion. <i>Diamond and Related Materials</i> , 2004, 13, 1771-1776.	1.8	109
17	Critical Thermalization of a Disordered Dipolar Spin System in Diamond. <i>Physical Review Letters</i> , 2018, 121, 023601.	2.9	107
18	Superradiant emission from colour centres in diamond. <i>Nature Physics</i> , 2018, 14, 1168-1172.	6.5	106

#	ARTICLE	IF	CITATIONS
19	Growth rate of high-quality large diamond crystals. <i>Journal of Crystal Growth</i> , 2002, 237-239, 1281-1285.	0.7	95
20	Distinctive mechanical properties of nano-polycrystalline diamond synthesized by direct conversion sintering under HPHT. <i>Diamond and Related Materials</i> , 2012, 24, 44-48.	1.8	91
21	Glitch-free X-ray absorption spectrum under high pressure obtained using nano-polycrystalline diamond anvils. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 768-772.	1.0	88
22	Depolarization Dynamics in a Strongly Interacting Solid-State Spin Ensemble. <i>Physical Review Letters</i> , 2017, 118, 093601.	2.9	86
23	Mechanical properties of synthetic type IIa diamond crystal. <i>Diamond and Related Materials</i> , 1997, 6, 1841-1846.	1.8	78
24	Multimode Storage and Retrieval of Microwave Fields in a Spin Ensemble. <i>Physical Review X</i> , 2014, 4, .	2.8	77
25	Large Defect-Free Synthetic Type IIa Diamond Crystals Synthesized via High Pressure and High Temperature. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 090102.	0.8	74
26	Conditions and mechanism of formation of nano-polycrystalline diamonds on direct transformation from graphite and non-graphitic carbon at high pressure and temperature. <i>High Pressure Research</i> , 2006, 26, 63-69.	0.4	68
27	Observation of higher stiffness in nanopolycrystal diamond than monocrystal diamond. <i>Nature Communications</i> , 2013, 4, 2343.	5.8	68
28	Robust and Accurate Electric Field Sensing with Solid State Spin Ensembles. <i>Nano Letters</i> , 2019, 19, 4904-4910.	4.5	68
29	Optically induced dynamic nuclear spin polarisation in diamond. <i>New Journal of Physics</i> , 2016, 18, 013040.	1.2	65
30	Cutting performance of nano-polycrystalline diamond. <i>Diamond and Related Materials</i> , 2012, 24, 78-82.	1.8	64
31	High-resolution spectroscopy of single nuclear spins via sequential weak measurements. <i>Nature Communications</i> , 2019, 10, 594.	5.8	60
32	Integrated and Portable Magnetometer Based on Nitrogen-Vacancy Ensembles in Diamond. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000111.	1.8	60
33	Zero-Field Magnetometry Based on Nitrogen-Vacancy Ensembles in Diamond. <i>Physical Review Applied</i> , 2019, 11, .	1.5	58
34	Micromachining and surface processing of the super-hard nano-polycrystalline diamond by three types of pulsed lasers. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 833-842.	1.1	56
35	Compact integrated magnetometer based on nitrogen-vacancy centres in diamond. <i>Diamond and Related Materials</i> , 2019, 93, 59-65.	1.8	56
36	Nonvolatile nuclear spin memory enables sensor-unlimited nanoscale spectroscopy of small spin clusters. <i>Nature Communications</i> , 2017, 8, 834.	5.8	53

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37	Solid-state electron spin lifetime limited by phononic vacuum modes. <i>Nature Materials</i> , 2018, 17, 313-317.	13.3	53
38	High pressure synthesis of cubic boron nitride from amorphous state. <i>Materials Research Bulletin</i> , 1983, 18, 1203-1207.	2.7	52
39	Elastic constants of cubic and wurtzite boron nitrides. <i>Applied Physics Letters</i> , 2013, 102, 241909.	1.5	52
40	Quantum Metrology with Strongly Interacting Spin Systems. <i>Physical Review X</i> , 2020, 10, .	2.8	52
41	Diamond Magnetometry and Gradiometry Towards Subpicotesla dc Field Measurement. <i>Physical Review Applied</i> , 2021, 15, .	1.5	49
42	Large Defect-Free Synthetic Type IIa Diamond Crystals Synthesized via High Pressure and High Temperature. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 090102.	0.8	44
43	Micro-/nanostructural investigation of laser-cut surfaces of single- and polycrystalline diamonds. <i>Diamond and Related Materials</i> , 2010, 19, 1040-1051.	1.8	43
44	Boron-doped diamond heater and its application to large-volume, high-pressure, and high-temperature experiments. <i>Review of Scientific Instruments</i> , 2009, 80, 023907.	0.6	41
45	New diamond anvil cell for single-crystal analysis. <i>Review of Scientific Instruments</i> , 2001, 72, 1458.	0.6	39
46	HPHT synthesis and crystalline quality of large high-quality (001) and (111) diamond crystals. <i>Diamond and Related Materials</i> , 2015, 58, 221-225.	1.8	39
47	Heterodyne sensing of microwaves with a quantum sensor. <i>Nature Communications</i> , 2021, 12, 2737.	5.8	38
48	Pulsed laser processing of nano-polycrystalline diamond: A comparative study with single crystal diamond. <i>Diamond and Related Materials</i> , 2009, 18, 877-880.	1.8	37
49	Mechanical properties of nano-polycrystalline cBN synthesized by direct conversion sintering under HPHT. <i>Diamond and Related Materials</i> , 2014, 41, 14-19.	1.8	37
50	Microwave-Free Vector Magnetometry with Nitrogen-Vacancy Centers along a Single Axis in Diamond. <i>Physical Review Applied</i> , 2020, 13, .	1.5	36
51	Electron spin resonance detected by a superconducting qubit. <i>Physical Review B</i> , 2012, 86, .	1.1	35
52	Cutting performance of a binder-less sintered cubic boron nitride tool in the high-speed milling of gray cast iron. <i>Journal of Materials Processing Technology</i> , 2002, 127, 217-221.	3.1	34
53	Generation of Multi-Megabar Pressure Using Nano-Polycrystalline Diamond Anvils. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L640-L641.	0.8	34
54	Towards a spin-ensemble quantum memory for superconducting qubits. <i>Comptes Rendus Physique</i> , 2016, 17, 693-704.	0.3	34

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55	Tracking the 3D Rotational Dynamics in Nanoscopic Biological Systems. <i>Journal of the American Chemical Society</i> , 2020, 142, 7542-7554.	6.6	34
56	Probing Quantum Thermalization of a Disordered Dipolar Spin Ensemble with Discrete Time-Crystalline Order. <i>Physical Review Letters</i> , 2019, 122, 043603.	2.9	33
57	Nanolayered Diamond Sintered Compact Obtained by Direct Conversion from Highly Oriented Graphite under High Pressure and High Temperature. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	1.5	32
58	Polishing mechanism and surface damage analysis of type IIa single crystal diamond processed by mechanical and chemical polishing methods. <i>Diamond and Related Materials</i> , 2016, 63, 80-85.	1.8	32
59	Ultrahard diamond indenter prepared from nanopolycrystalline diamond. <i>Review of Scientific Instruments</i> , 2008, 79, 056102.	0.6	31
60	Influence of graphite crystallinity on the microtexture of nano-polycrystalline diamond obtained by direct conversion. <i>Physics and Chemistry of Minerals</i> , 2012, 39, 543-552.	0.3	31
61	Super-hard diamond indenter prepared from high-purity synthetic diamond crystal. <i>Review of Scientific Instruments</i> , 2005, 76, 026112.	0.6	30
62	Synchrotron X-ray topography of dislocations in high-pressure high-temperature-grown single-crystal diamond with low dislocation density. <i>Applied Physics Express</i> , 2014, 7, 125501.	1.1	30
63	Real indentation hardness of nano-polycrystalline cBN synthesized by direct conversion sintering under HPHT. <i>Diamond and Related Materials</i> , 2014, 48, 47-51.	1.8	30
64	Note: High-pressure generation using nano-polycrystalline diamonds as anvil materials. <i>Review of Scientific Instruments</i> , 2011, 82, 066104.	0.6	27
65	Collective strong coupling with homogeneous Rabi frequencies using a 3D lumped element microwave resonator. <i>Applied Physics Letters</i> , 2016, 109, 033508.	1.5	27
66	Ultrathin fiber-taper coupling with nitrogen vacancy centers in nanodiamonds at cryogenic temperatures. <i>Optics Letters</i> , 2015, 40, 5702.	1.7	26
67	Single spin optically detected magnetic resonance with 60-90 GHz (E-band) microwave resonators. <i>Review of Scientific Instruments</i> , 2015, 86, 064704.	0.6	26
68	Pressure generation in a 6-8-2 type multi-anvil system: a performance test for third-stage anvils with various diamonds. <i>High Pressure Research</i> , 2008, 28, 237-244.	0.4	25
69	Optical Characteristics of Nano-Polycrystalline Diamond Synthesized Directly from Graphite under High Pressure and High Temperature. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 120206.	0.8	23
70	Electron momentum distributions in elemental semiconductors probed by positrons. <i>Physical Review B</i> , 1998, 57, 12219-12228.	1.1	22
71	Deformation microstructure of high-quality synthetic diamond crystal subjected to Knoop indentation. <i>Applied Physics Letters</i> , 2006, 88, 161904.	1.5	22
72	Design of a high-temperature and high-pressure liquid flow cell for x-ray absorption fine structure measurements under catalytic reaction conditions. <i>Review of Scientific Instruments</i> , 2008, 79, 014101.	0.6	21

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73	Density-dependent exciton kinetics in synthetic diamond crystals. <i>Physical Review B</i> , 2009, 80, .	1.1	21
74	Application of nano-polycrystalline diamond to laser-heated diamond anvil cell experiments. <i>High Pressure Research</i> , 2010, 30, 142-150.	0.4	21
75	Noncollinear Spin Structure in Fe-Ni Invar Alloy Probed by Magnetic EXAFS at High Pressure. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 023709.	0.7	21
76	Synthesis of polycrystalline diamond with new non-metallic catalyst under high pressure and high temperature. <i>International Journal of Refractory Metals and Hard Materials</i> , 1999, 17, 345-350.	1.7	20
77	Micro milling tool made of nano-polycrystalline diamond for precision cutting of SiC. <i>CIRP Annals - Manufacturing Technology</i> , 2017, 66, 93-96.	1.7	20
78	Formation of stacking fault and dislocation behavior during the high-temperature annealing of single-crystal HPHT diamond. <i>Diamond and Related Materials</i> , 2017, 75, 155-160.	1.8	20
79	Optically Detected Magnetic Resonance of Nanodiamonds & In Vivo; Implementation of Selective Imaging and Fast Sampling. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 1014-1021.	0.9	18
80	Optical properties of ultrapure nano-polycrystalline diamond. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 120306.	0.8	18
81	Elasticity and hardness of nano-polycrystalline boron nitrides: The apparent Hall-Petch effect. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	17
82	Enhancing fluorescence excitation and collection from the nitrogen-vacancy center in diamond through a micro-concave mirror. <i>Applied Physics Letters</i> , 2018, 113, 041107.	1.5	17
83	Exploratory study of the new B-doped diamond heater at high pressure and temperature and its application to in situ XRD experiments on hydrous Mg-silicate melt. <i>High Pressure Research</i> , 2008, 28, 255-264.	0.4	16
84	High wear-resistance characteristic of boron-doped nano-polycrystalline diamond on optical glass. <i>Diamond and Related Materials</i> , 2016, 70, 7-11.	1.8	16
85	Applications of nano-polycrystalline diamond anvils to X-ray absorption spectroscopy under high pressure. <i>High Pressure Research</i> , 2016, 36, 381-390.	0.4	16
86	On the improvement of subsurface quality of CaF <sub>2</sub> single crystal machined by boron-doped nano-polycrystalline diamond tools. <i>Precision Engineering</i> , 2018, 52, 73-83.	1.8	16
87	Photoluminescence at the ground-state level anticrossing of the nitrogen-vacancy center in diamond: A comprehensive study. <i>Physical Review B</i> , 2021, 103, .	1.1	16
88	Novel superhard nanopolycrystalline materials synthesized by direct conversion sintering under high pressure and high temperature. <i>MRS Bulletin</i> , 2017, 42, 729-733.	1.7	15
89	Loop-gap microwave resonator for hybrid quantum systems. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	15
90	p-n Junction diode by B-doped diamond heteroepitaxially grown on Si-doped c-BN. <i>Diamond and Related Materials</i> , 1994, 3, 1389-1392.	1.8	14

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91	High-Quality Synthetic Diamond Crystals.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 960-965.	0.1	14
92	Real hardness of high-purity ultra-fine nano-polycrystalline diamond synthesized by direct conversion sintering under HPHT. Diamond and Related Materials, 2019, 100, 107560.	1.8	14
93	Wear resistance of nano-polycrystalline diamond with various hexagonal diamond contents. Journal of Superhard Materials, 2012, 34, 343-349.	0.5	13
94	Determination of the type of stacking faults in single-crystal high-purity diamond with a low dislocation density of $<50 \text{ cm}^{-2}>$ by synchrotron X-ray topography. Japanese Journal of Applied Physics, 2016, 55, 040303.	0.8	13
95	Behavior of crystal defects in synthetic type-IIa single-crystalline diamond at high temperatures under normal pressure. Journal of Crystal Growth, 2017, 458, 27-30.	0.7	13
96	Thermally activated deformation under Knoop indentations in super-hard directions of high-quality synthetic type-IIa diamond crystals. Diamond and Related Materials, 2006, 15, 1576-1579.	1.8	12
97	Pressure dependence of the optical-absorption edge of diamond. Physical Review B, 1991, 44, 12176-12179.	1.1	11
98	$\langle \text{span class="aps-inline-formula"} \rangle \langle \text{math xmlns="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mi} \rangle \hat{\pm} \langle \text{mi} \rangle \langle \text{mo} \rangle \hat{\sim} \langle \text{mo} \rangle \langle \text{mi} \rangle \hat{\mu} \langle \text{mi} \rangle \langle \text{math} \rangle \langle \text{span} \rangle$ transition pathway of iron under quasihydrostatic pressure conditions. Physical Review B, 2014, 90, .	1.1	11
99	Plastic deformation and optical behavior of high-purity synthetic diamond crystal subjected to high stress load at room temperature. Applied Physics Letters, 2008, 93, 101915.	1.5	10
100	Lowering P, T boundary for synthesis of pure nano-polycrystalline diamond. Journal of Physics: Conference Series, 2010, 215, 012136.	0.3	10
101	Diamond radiation detector made of an ultrahigh-purity type IIa diamond crystal grown by high-pressure and high-temperature synthesis. Review of Scientific Instruments, 2001, 72, 1406.	0.6	9
102	Charge density analysis of SiO <sub>2</sub> under pressures over 50 GPa using a new diamond anvil cell for single-crystal structure analysis. Journal of Physics Condensed Matter, 2002, 14, 10545-10551.	0.7	9
103	$\langle \text{title} \rangle$ High-quality synthetic diamonds for the monochromator of synchrotron radiation beams $\langle \text{title} \rangle$ . , 1997, , .		8
104	Nanopolycrystalline Diamond without Binder and its Application to Various High-Pressure Apparatus. , 2014, , 173-191.		8
105	Element-selective elastic properties of Fe <sub>65</sub> Ni <sub>35</sub> Invar alloy and Fe <sub>72</sub> Pt <sub>28</sub> alloy studied by extended X-ray absorption fine structure. High Pressure Research, 2020, 40, 130-139.	0.4	8
106	Determination of metallic impurities in high-purity type IIa diamond grown by high-pressure and high-temperature synthesis using neutron activation analysis. Diamond and Related Materials, 2000, 9, 2019-2023.	1.8	7
107	Laser heating in nano-polycrystalline diamond anvil cell. Journal of Physics: Conference Series, 2010, 215, 012192.	0.3	7
108	Determination of partial dislocations of stacking fault in (111) single crystal diamond grown on (111) seed crystal by synchrotron X-ray topography. Journal of Crystal Growth, 2017, 468, 439-442.	0.7	7

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109	Detection and control of single proton spins in a thin layer of diamond grown by chemical vapor deposition. Applied Physics Letters, 2020, 117, .	1.5	7
110	Characterization of boron-doped diamonds using <sup>11</sup> B high-resolution NMR at high magnetic fields. Diamond and Related Materials, 2008, 17, 1835-1839.	1.8	6
111	Elastic constant C <sub>11</sub> of <sup>12</sup> C diamond between 10 and 613 K. Applied Physics Letters, 2016, 108, 221902.	1.5	6
112	High-Pressure Synthesis of High-Purity and High-Performance Diamond and cBN Ceramics. Advances in Science and Technology, 2006, 45, 885-892.	0.2	5
113	HPHT Synthesis of Large, High-Quality, Single Crystal Diamonds. , 2014, , 195-215.		5
114	Growing Method of a Large Synthetic Diamond Single Crystal.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1993, 2, 315-320.	0.1	4
115	Microstructure and Properties of High-purity Polycrystalline cBN.. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2002, 49, 327-332.	0.1	4
116	High Pressure Synthesis of High-Purity Polycrystalline Diamonds by Direct Conversion from Various Carbon Materials and their Characterization. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2006, 16, 207-215.	0.1	4
117	Formation Mechanism and Some Properties of Super-hard Nano-polycrystalline Diamond Synthesized by Direct Conversion Sintering. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2006, 53, 452-458.	0.1	4
118	Dry Grinding of Nano-Polycrystalline Diamond Using Thermochemical Reaction. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 4513-4523.	0.2	4
119	Cutting Performance of Binder-Less Nano-Polycrystalline cBN Tool. Advanced Materials Research, 2014, 1017, 389-392.	0.3	4
120	Wear Characteristics of Binder-Less Nano-Polycrystalline Diamond and Cubic Boron Nitride. Advanced Materials Research, 0, 1017, 406-410.	0.3	4
121	Crystalline quality distributions of the type IIa diamond substrate and the CVD diamond layer processed by chemical mechanical polishing using a SiO <sub>2</sub> wheel. Japanese Journal of Applied Physics, 2018, 57, 105503.	0.8	4
122	Note: Evaluation of microfracture strength of diamond materials using nano-polycrystalline diamond spherical indenter. Review of Scientific Instruments, 2018, 89, 056102.	0.6	4
123	Elongation of Fe-Fe atomic pairs in the Invar alloy $\langle \text{Fe-Fe} \rangle$ . Physical Review B, 2021, 103, .		
124	Improvement of Properties in High-purity Polycrystalline cBN by Microstructure Management.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2003, 13, 24-30.	0.1	4
125	Reaction sintering of polycrystalline cubic boron nitride at high pressure and temperature.. Funtai Oyobi Fummatsumu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 1989, 36, 752-755.	0.1	3
126	High-pressure generation using high-purity synthetic type IIa diamond anvils. High Pressure Research, 2008, 28, 217-223.	0.4	3



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127	Recent Advances in High Pressure Apparatus for Diamond Synthesis. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2009, 19, 264-269.	0.1	3
128	Microball Endmill Made of Nano-Polycrystalline Diamond(Machine Elements, Design and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td ( Mechanical Engineers, Part C, 2010, 76, 768-776.	0.2	3
129	Effect of Cutting Fluid on Diamond Tool Life under Micro V-Groove Turning of Cobalt-Free Tungsten Carbide. Advanced Materials Research, 0, 1017, 181-186.	0.3	3
130	Negatively charged boron vacancy center in diamond. Physical Review B, 2022, 105, .	1.1	3
131	Multiple shock compression of diamond foils with a shaped laser pulse over 1 TPa. Journal of Physics: Conference Series, 2008, 112, 042023.	0.3	2
132	Wear Characteristics of Various Diamond Tools in Cutting of Tungsten Carbide. Advanced Materials Research, 2011, 325, 153-158.	0.3	2
133	Cutting Performances of Nano-Polycrystalline Diamond. Key Engineering Materials, 0, 523-524, 105-108.	0.4	2
134	Performance of Newly Developed Single-Point Diamond Dresser in Terms of Cutting-Point Rake Angle. Advanced Materials Research, 0, 565, 205-210.	0.3	2
135	Magnetic EXAFS study of Fe-Ni invar alloy under high pressure using nano-polycrystalline diamond anvils. Journal of Physics: Conference Series, 2012, 377, 012039.	0.3	2
136	Linear machining technique using nanosecond pulsed laser for forming single-point cutting tool made of nano-polycrystalline diamond. Transactions of the JSME (in Japanese), 2017, 83, 16-00573-16-00573.	0.1	2
137	The luminescence emitted from the type Ib and IIa diamonds under the SiO <sub>2</sub> polishing process. Diamond and Related Materials, 2018, 83, 104-108.	1.8	2
138	Microstructure and Mechanical Behaviors of Nano-polycrystalline Diamonds Synthesized by Direct Conversion Sintering under HPHT. Materials Research Society Symposia Proceedings, 2006, 987, 1.	0.1	1
139	Crystal Growth. , 2007, , 329-445.		1
140	Development of Super-hard Nano-polycrystalline Diamond. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2008, 55, 575-581.	0.1	1
141	Novel Development of High-pressure Synthetic Diamond. Journal of the Japan Society for Precision Engineering, 2010, 76, 1319-1323.	0.0	1
142	Application of Nano-Polycrystalline Diamond (NPD) to DAC. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2011, 21, 285-291.	0.1	1
143	Synthesis of Nano-Polycrystalline Diamond (NPD) and Its Application to Ultrahigh-Pressure Studies. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2011, 21, 278-284.	0.1	1
144	Thermochemical Reactions between Nano-Polycrystalline Diamond and Grinding Tool Made of Polycrystalline Diamond. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 4704-4717.	0.2	1

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145	Grinding techniques for fabricating micro-lens array mold made of cemented carbide (Polycrystalline) Tj ETQq1 1 0.784314 rgBT /Overlo 21-00216-21-00216.	0.1	1
146	Novel Magnetic-Sensing Modalities with Nitrogen-Vacancy Centers in Diamond. , 0, , .		1
147	Synthesis of Super-Hard Materials by Direct Conversion Sintering under High Pressure and High Temperature and Their Mechanical Properties. Zairyo/Journal of the Society of Materials Science, Japan, 2012, 61, 412-418.	0.1	1
148	Micro-scale abrasion investigations of single-crystal diamonds using nano-polycrystalline diamond wheels. Diamond and Related Materials, 2022, , 109108.	1.8	1
149	OS02-2-5 Picosecond Ultrasound Spectroscopy for High Purity Boron Nitrides. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS02-2-5-.	0.0	0
150	Development of Indentation Tester for the Evaluation of Adhesion Properties of Diamond Films. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2012, 63, 764-768.	0.1	0
151	High-Pressure Synthesis and Properties of Nano-Polycrystalline Super-Hard Materials. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2012, 22, 121-128.	0.1	0
152	Development of Novel Diamond/cBN Materials via Ultra-high Pressure and High Temperature. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, 349-354.	0.1	0
153	Ultrathin fiber-taper coupling with nitrogen vacancy centers in nanodiamonds at cryogenic temperatures. Proceedings of SPIE, 2016, , .	0.8	0
154	Synthesis of diamonds by a high temperature/high pressure process. Tanso, 2011, 2011, 218-225.	0.1	0
155	OS02F023 Picosecond Ultrasound Spectroscopy for High Purity Boron Nitrides. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS02F023-_OS02F023-.	0.0	0
156	Practical Development of Binderless Nano-polycrystalline Diamond. Journal of the Japan Society for Precision Engineering, 2012, 78, 108-111.	0.0	0
157	Episode 1. Journal of the Japan Society for Precision Engineering, 2012, 78, 122-123.	0.0	0
158	Optimization of optical spin readout of the nitrogen-vacancy center in diamond based on spin relaxation model. AIP Advances, 2022, 12, 055215.	0.6	0