Lin Dong

List of Publications by Year
in descending order

142 papers	8,440 citations	46984 47 h-index	48277 88 g-index
143 all docs	143 docs citations	143 times ranked	9038 citing authors

#	Article	IF	Citations
1	Recent Progress in Electronic Skin. Advanced Science, 2015, 2, 1500169.	5.6	789
2	High-resolution electroluminescent imaging of pressure distribution using a piezoelectric nanowire LED array. Nature Photonics, 2013, 7, 752-758.	15.6	641
3	Dynamic Pressure Mapping of Personalized Handwriting by a Flexible Sensor Matrix Based on the Mechanoluminescence Process. Advanced Materials, 2015, 27, 2324-2331.	11.1	468
4	Selfâ€Powered Highâ€Resolution and Pressureâ€Sensitive Triboelectric Sensor Matrix for Realâ€Time Tactile Mapping. Advanced Materials, 2016, 28, 2896-2903.	11.1	344
5	Self-powered diamond/Î²-Ga₂O₃ photodetectors for solar-blind imaging. Journal of Materials Chemistry C, 2018, 6, 5727-5732.	2.7	270
6	Growth of ZnO Nanostructures with Different Morphologies by Using Hydrothermal Technique. Journal of Physical Chemistry B, 2006, 110, 20263-20267.	1.2	207
7	Flexible and Controllable Piezoâ€Phototronic Pressure Mapping Sensor Matrix by ZnO NW/pâ€Polymer LED Array. Advanced Functional Materials, 2015, 25, 2884-2891.	7.8	200
8	Enhanced Cu₂S/CdS Coaxial Nanowire Solar Cells by Piezo-Phototronic Effect. Nano Letters, 2012, 12, 3302-3307.	4.5	174
9	Gas Dielectric Transistor of CuPc Single Crystalline Nanowire for SO₂ Detection Down to Subâ€ppm Levels at Room Temperature. Advanced Materials, 2013, 25, 2269-2273.	11.1	158
10	Mixed-dimensional PdSe₂/SiNWA heterostructure based photovoltaic detectors for self-driven, broadband photodetection, infrared imaging and humidity sensing. Journal of Materials Chemistry A, 2020, 8, 3632-3642.	5.2	158
11	Ultralong and efficient phosphorescence from silica confined carbon nanodots in aqueous solution. Nano Today, 2020, 34, 100900.	6.2	147
12	Nearâ€Infrared Chemiluminescent Carbon Nanodots and Their Application in Reactive Oxygen Species Bioimaging. Advanced Science, 2020, 7, 1903525.	5.6	143
13	Chemiluminescent carbon dots: Synthesis, properties, and applications. Nano Today, 2020, 35, 100954.	6.2	138
14	Detection of non-joint areas tiny strain and anti-interference voice recognition by micro-cracked metal thin film. Nano Energy, 2017, 34, 578-585.	8.2	128
15	Mechanically Induced Light Emission and Infrared-Laser-Induced Upconversion in the Er-Doped CaZnOS Multifunctional Piezoelectric Semiconductor for Optical Pressure and Temperature Sensing. Journal of Physical Chemistry C, 2015, 119, 28136-28142.	1.5	123
16	Water-induced MAPbBr3@PbBr(OH) with enhanced luminescence and stability. Light: Science and Applications, 2020, 9, 44.	7.7	122
17	Bright and Multicolor Chemiluminescent Carbon Nanodots for Advanced Information Encryption. Advanced Science, 2019, 6, 1802331.	5.6	120
18	Diamondâ€Based Allâ€Carbon Photodetectors for Solarâ€Blind Imaging. Advanced Optical Materials, 2018, 6, 1800068.	3.6	117

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19	Piezotronic Effect on the Transport Properties of GaN Nanobelts for Active Flexible Electronics. Advanced Materials, 2012, 24, 3532-3537.	11.1	114
20	Electrochemical Cathodic Protection Powered by Triboelectric Nanogenerator. Advanced Functional Materials, 2014, 24, 6691-6699.	7.8	104
21	The structural and optical properties of ZnO nanorod arrays. Solid State Communications, 2005, 135, 179-182.	0.9	98
22	Phosphorescent Carbon-Nanodots-Assisted FÃ¶rster Resonant Energy Transfer for Achieving Red Afterglow in an Aqueous Solution. ACS Nano, 2021, 15, 16242-16254.	7.3	94
23	Enhanced emission intensity of vertical aligned flexible ZnO nanowire/p-polymer hybridized LED array by piezo-phototronic effect. Nano Energy, 2015, 14, 364-371.	8.2	92
24	Controlled Homoepitaxial Growth of Hybrid Perovskites. Advanced Materials, 2018, 30, e1705992.	11.1	82
25	Piezo-phototronic Effect Enhanced Efficient Flexible Perovskite Solar Cells. ACS Nano, 2019, 13, 4507-4513.	7.3	82
26	Piezotronic effect enhanced Schottky-contact ZnO micro/nanowire humidity sensors. Nano Research, 2014, 7, 1083-1091.	5.8	81
27	Enhancing Light Emission of ZnOâ€Nanofilm/Siâ€Micropillar Heterostructure Arrays by Piezoâ€Phototronic Effect. Advanced Materials, 2015, 27, 4447-4453.	11.1	81
28	Optical Fiberâ€Based Coreâ€“Shell Coaxially Structured Hybrid Cells for Selfâ€Powered Nanosystems. Advanced Materials, 2012, 24, 3356-3361.	11.1	80
29	Flexible quantum dot-sensitized solar cells employing CoS nanorod arrays/graphite paper as effective counter electrodes. Journal of Materials Chemistry A, 2014, 2, 13661.	5.2	80
30	Tactile Sensors for Advanced Intelligent Systems. Advanced Intelligent Systems, 2019, 1, 1900090.	3.3	80
31	CdS nanorods/organic hybrid LED array and the piezo-phototronic effect of the device for pressure mapping. Nanoscale, 2016, 8, 8078-8082.	2.8	78
32	In-situ embedding of carbon dots in a trisodium citrate crystal matrix for tunable solid-state fluorescence. Carbon, 2018, 136, 359-368.	5.4	78
33	Piezoâ€Phototronic Effect of CdSe Nanowires. Advanced Materials, 2012, 24, 5470-5475.	11.1	77
34	The Optical Properties of ZnO Nanoparticles Capped with Polyvinyl Butyral. Journal of Sol-Gel Science and Technology, 2004, 30, 157-161.	1.1	74
35	Scalable Synthesis of Green Fluorescent Carbon Dot Powders with Unprecedented Efficiency. Advanced Optical Materials, 2020, 8, 1901938.	3.6	74
36	Stretchable and transparent electroluminescent device driven by triboelectric nanogenerator. Nano Energy, 2019, 58, 410-418.	8.2	68

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37	Nanodiamonds: Synthesis, properties, and applications in nanomedicine. Materials and Design, 2021, 210, 110091.	3.3	68
38	Light-Emission Enhancement in a Flexible and Size-Controllable ZnO Nanowire/Organic Light-Emitting Diode Array by the Piezotronic Effect. ACS Photonics, 2017, 4, 1344-1349.	3.2	65
39	Diamond based photodetectors for solar-blind communication. Optics Express, 2019, 27, 29962.	1.7	65
40	Wettability conversion on ZnO nanowire arrays surface modified by oxygen plasma treatment and annealing. Chemical Physics Letters, 2005, 413, 450-453.	1.2	62
41	Europium-decorated ZnO quantum dots as a fluorescent sensor for the detection of an anthrax biomarker. Journal of Materials Chemistry C, 2017, 5, 1685-1691.	2.7	59
42	Tungstate-modulated Ni/Ni(OH)₂interface for efficient hydrogen evolution reaction in neutral media. Journal of Materials Chemistry A, 2021, 9, 1456-1462.	5.2	57
43	Preparation of ZnO colloids by aggregation of the nanocrystal subunits. Journal of Colloid and Interface Science, 2005, 283, 380-384.	5.0	55
44	Lifetimeâ€Engineered Carbon Nanodots for Time Division Duplexing. Advanced Science, 2021, 8, 2003433.	5.6	54
45	Photoluminescence properties of catalyst-free growth of needle-like ZnO nanowires. Nanotechnology, 2005, 16, 609-612.	1.3	53
46	Mechanoluminescent hybrids from a natural resource for energyâ€related applications. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1272-1284.	8.5	53
47	Wafer-scale growth of two-dimensional graphitic carbon nitride films. Matter, 2021, 4, 1625-1638.	5.0	52
48	Flexible and Biocompatible Physical Unclonable Function Antiâ€Counterfeiting Label. Advanced Functional Materials, 2021, 31, 2102108.	7.8	52
49	Water-induced ultralong room temperature phosphorescence by constructing hydrogen-bonded networks. Nano Research, 2020, 13, 875-881.	5.8	51
50	Broadband photodetection of 2D Bi2O2Seâ€“MoSe2 heterostructure. Journal of Materials Science, 2019, 54, 14742-14751.	1.7	46
51	Regulations of Glycolytic Activities on Macrophages Functions in Tumor and Infectious Inflammation. Frontiers in Cellular and Infection Microbiology, 2020, 10, 287.	1.8	45
52	MXene enhanced self-powered alternating current electroluminescence devices for patterned flexible displays. Nano Energy, 2021, 86, 106077.	8.2	44
53	Ultra-sensitive flexible Ga2O3 solar-blind photodetector array realized via ultra-thin absorbing medium. Nano Research, 2022, 15, 3711-3719.	5.8	44
54	Recent progress of carbon dots in targeted bioimaging and cancer therapy. Theranostics, 2022, 12, 2860-2893.	4.6	44

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55	Carbon nanodot-based humidity sensor for self-powered respiratory monitoring. Nano Energy, 2022, 101, 107549.	8.2	44
56	Advanced encryption based on fluorescence quenching of ZnO nanoparticles. Journal of Materials Chemistry C, 2017, 5, 7167-7173.	2.7	42
57	Solution Processed Trilayer Structure for High-Performance Perovskite Photodetector. Nanoscale Research Letters, 2018, 13, 399.	3.1	42
58	Effective light scattering and charge separation in nanodiamond@g-C3N4 for enhanced visible-light hydrogen evolution. Carbon, 2018, 139, 164-171.	5.4	42
59	Self-exothermic reaction driven large-scale synthesis of phosphorescent carbon nanodots. Nano Research, 2021, 14, 2231-2240.	5.8	41
60	Solar-blind imaging based on 2-inch polycrystalline diamond photodetector linear array. Carbon, 2021, 173, 427-432.	5.4	39
61	Enhanced photocatalytic degradation properties of nitrogen-doped titania nanotube arrays. Transactions of Nonferrous Metals Society of China, 2009, 19, 1583-1587.	1.7	38
62	Carbon-ZnO alternating quantum dot chains: electrostatic adsorption assembly and white light-emitting device application. Nanoscale, 2018, 10, 7155-7162.	2.8	38
63	Two-Dimensional Ordered Arrays of Silica Nanoparticles. Chemistry of Materials, 2000, 12, 3662-3666.	3.2	35
64	Piezophototronicâ€Effectâ€Enhanced Electrically Pumped Lasing. Advanced Materials, 2017, 29, 1602832.	11.1	35
65	A damage assessment model of oil spill accident combining historical data and satellite remote sensing information: A case study in Penglai 19-3 oil spill accident of China. Marine Pollution Bulletin, 2015, 91, 258-271.	2.3	34
66	Immune effects of glycolysis or oxidative phosphorylation metabolic pathway in protecting against bacterial infection. Journal of Cellular Physiology, 2019, 234, 20298-20309.	2.0	34
67	Chemiluminescent carbon nanodots as sensors for hydrogen peroxide and glucose. Nanophotonics, 2020, 9, 3597-3604.	2.9	34
68	Ultraviolet phosphorescent carbon nanodots. Light: Science and Applications, 2022, 11, .	7.7	33
69	Flexible, Conformable Organic Semiconductor Proximity Sensor Array for Electronic Skin. Advanced Materials Interfaces, 2020, 7, 2000306.	1.9	32
70	A ratiometric fluorescent nanoprobe based on quenched carbon dots-rhodamine B for selective detection of l-cysteine. Journal of Alloys and Compounds, 2019, 788, 615-622.	2.8	31
71	Self-powered multi-color display based on stretchable self-healing alternating current electroluminescent devices. Nano Energy, 2022, 95, 107061.	8.2	30
72	Regulating Ni site in NiV LDH for efficient electrocatalytic production of formate and hydrogen by glycerol electrolysis. Rare Metals, 2022, 41, 1583-1594.	3.6	29

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73	HIF1Î±-Dependent Metabolic Signals Control the Differentiation of Follicular Helper T Cells. Cells, 2019, 8, 1450.	1.8	27
74	Ga₂O₃-Based Solar-Blind Position-Sensitive Detector for Noncontact Measurement and Optoelectronic Demodulation. Nano Letters, 2022, 22, 4888-4896.	4.5	27
75	Stable Ultrathin Perovskite/Polyvinylidene Fluoride Composite Films for Imperceptible Multiâ€Color Fluorescent Antiâ€Counterfeiting Labels. Advanced Materials Technologies, 2021, 6, 2100229.	3.0	26
76	Pressure-induced photoluminescence enhancement and ambient retention in confined carbon dots. Nano Research, 2022, 15, 2545-2551.	5.8	26
77	Preparation and characterization of nitrogen-doped titania nanotubes. Materials Letters, 2009, 63, 1598-1600.	1.3	25
78	Efficient chemiluminescent ZnO nanoparticles for cellular imaging. Journal of Luminescence, 2020, 221, 117111.	1.5	25
79	Catalyst-free growth of well-aligned arsenic-doped ZnO nanowires by chemical vapor deposition method. Applied Surface Science, 2010, 257, 1084-1087.	3.1	24
80	Photo-induced birefringence and polarization holography in polymer films containing spirooxazine compounds pre-irradiated by UV light. Optics Communications, 2004, 242, 115-122.	1.0	22
81	The effect of surface properties on visible luminescence of nanosized colloidal ZnO membranes. Journal of Colloid and Interface Science, 2005, 282, 403-407.	5.0	22
82	Luminescent hybrid materials based on nanodiamonds. Carbon, 2018, 127, 170-176.	5.4	21
83	Neuroprotective Effect of Dichloromethane Extraction From Piper nigrum L. and Piper longum L. on Permanent Focal Cerebral Ischemia Injury in Rats. Journal of Stroke and Cerebrovascular Diseases, 2019, 28, 751-760.	0.7	21
84	Near-infrared light-emitting devices from individual heavily Ga-doped ZnO microwires. Journal of Materials Chemistry C, 2017, 5, 2542-2551.	2.7	20
85	Functional differentiation and regulation of follicular T helper cells in inflammation and autoimmunity. Immunology, 2021, 163, 19-32.	2.0	20
86	Nearâ€infrared chemiluminescent carbon nanogels for oncology imaging and therapy. SmartMat, 2022, 3, 269-285.	6.4	20
87	Integrated, self-powered, and omni-transparent flexible electroluminescent display system. Nano Energy, 2022, 99, 107392.	8.2	20
88	Growth and optical properties of ZnO nanorods by introducing ZnO sols prior to hydrothermal process. Materials Letters, 2007, 61, 3578-3581.	1.3	19
89	Edge contrast enhancement of Fresnel incoherent correlation holography (FINCH) microscopy by spatial light modulator aided spiral phase modulation. Optics Express, 2017, 25, 29207.	1.7	19
90	Fabry-Perot interference and piezo-phototronic effect enhanced flexible MoS2 photodetector. Nano Research, 2022, 15, 4395-4402.	5.8	19

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91	Rewritable Painting Realized from Ambient-Sensitive Fluorescence of ZnO Nanoparticles. Scientific Reports, 2017, 7, 42232.	1.6	18
92	Humidity Sensors Realized via Negative Photoconductivity Effect in Nanodiamonds. Journal of Physical Chemistry Letters, 2021, 12, 4079-4084.	2.1	18
93	Interfacial-engineering enhanced performance and stability of ZnO nanowire-based perovskite solar cells. Nanotechnology, 2021, 32, 475204.	1.3	18
94	Enhancing the mechanoluminescence of traditional ZnS:Mn phosphors via Li+ Co-doping. Journal of Luminescence, 2020, 225, 117364.	1.5	18
95	Localized Excitonic Electroluminescence from Carbon Nanodots. Journal of Physical Chemistry Letters, 2022, 13, 1587-1595.	2.1	18
96	Trigonal Nitrogen Activates High-Brightness Chemiluminescent Carbon Nanodots. , 2021, 3, 826-837.		17
97	Wavelength-tunable infrared light emitting diode based on ordered ZnO nanowire/Si1â€“x Ge x alloy heterojunction. Nano Research, 2015, 8, 2676-2685.	5.8	16
98	Glucocorticoids Promote the Onset of Acute Experimental Colitis and Cancer by Upregulating mTOR Signaling in Intestinal Epithelial Cells. Cancers, 2020, 12, 945.	1.7	16
99	Chemical bond change of gibbsite and fumed silica mixture during mechanical activation. Materials Letters, 2012, 85, 91-94.	1.3	14
100	CdS@SiO₂Core-Shell Electroluminescent Nanorod Arrays Based on a Metal-Insulator-Semiconductor Structure. Small, 2016, 12, 5734-5740.	5.2	14
101	Computational Prediction of a Novel Superhard sp ³ Trigonal Carbon Allotrope with Bandgap Larger than Diamond. Chinese Physics Letters, 2021, 38, 076101.	1.3	14
102	IL-9 and Th9 Cells in Tumor Immunity. Advances in Experimental Medicine and Biology, 2020, 1240, 35-46.	0.8	14
103	Wafer-sized polycrystalline diamond photodetector planar arrays for solar-blind imaging. Journal of Materials Chemistry C, 2022, 10, 6488-6496.	2.7	14
104	A self-calibrated luminescent thermometer based on nanodiamond-Eu/Tb hybrid materials. Dalton Transactions, 2019, 48, 7910-7917.	1.6	13
105	Modulation on the electronic properties and band gap of layered ReSe2 via strain engineering. Journal of Alloys and Compounds, 2020, 827, 154364.	2.8	13
106	The direct and indirect regulation of follicular T helper cell differentiation in inflammation and cancer. Journal of Cellular Physiology, 2021, 236, 5466-5481.	2.0	13
107	N 6 â€methyladenosine RNA methylation: A novel regulator of the development and function of immune cells. Journal of Cellular Physiology, 2021, , .	2.0	13
108	Recycling Synthetic Route to Full-Color Fluorescent Carbon Nanodots. ACS Sustainable Chemistry and Engineering, 2022, 10, 1624-1632.	3.2	13

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109	Real-time holographic gratings recorded by Heâ€“Ne laser in polymer films containing spirooxazine compounds pre-irradiated by UV light. Optical Materials, 2005, 27, 1567-1570.	1.7	11
110	Growth and optical properties of ZnO nanostructures by vapor transport process. Materials Chemistry and Physics, 2007, 103, 190-194.	2.0	11
111	Gram-scale and solvent-free synthesis of Mn-doped lead halide perovskite nanocrystals. Journal of Alloys and Compounds, 2020, 815, 152393.	2.8	11
112	Recent Progress in Ohmic/Schottky-Contacted ZnO Nanowire Sensors. Journal of Nanomaterials, 2015, 2015, 1-20.	1.5	10
113	Ultrasensitive Mechano-Stimuli Luminescence Enhancement in ZnO Nanoparticles. Journal of Physical Chemistry Letters, 2019, 10, 3557-3562.	2.1	10
114	Towards efficient carbon nanodot-based electromagnetic microwave absorption via nitrogen doping. Applied Surface Science, 2021, 567, 150897.	3.1	10
115	Autologous transplantation of thecal stem cells restores ovarian function in nonhuman primates. Cell Discovery, 2021, 7, 75.	3.1	9
116	Photo-dynamics of polarization holographic recording in spirooxazine-doped polymer films. Materials Letters, 2005, 59, 1449-1452.	1.3	8
117	Growth of Hexagonal Columnar Nanograin Structured SiC Thin Films on Silicon Substrates with Grapheneâ€“Graphitic Carbon Nanoflakes Templates from Solid Carbon Sources. Materials, 2013, 6, 1543-1553.	1.3	8
118	Growth of GaN micro/nanolaser arrays by chemical vapor deposition. Nanotechnology, 2016, 27, 355201.	1.3	8
119	Surface chemical engineering towards efficient and bright chemiluminescent carbon nanodots. Applied Surface Science, 2021, 559, 149947.	3.1	8
120	Meter-scale chemiluminescent carbon nanodot films for temperature imaging. Materials Horizons, 2022, 9, 2533-2541.	6.4	8
121	Crucial role of histone deacetylase SIRT1 in myeloid-derived suppressor cell-mediated reprogramming of CD4+ T-cell differentiation. Cellular and Molecular Immunology, 2020, 17, 785-787.	4.8	7
122	The kinase AKT1 potentiates the suppressive functions of myeloid-derived suppressor cells in inflammation and cancer. Cellular and Molecular Immunology, 2021, 18, 1074-1076.	4.8	7
123	Tailoring the emission of Eu based hybrid materials for light-emitting diodes application. Journal of Luminescence, 2018, 200, 274-279.	1.5	6
124	Deep-ultraviolet and visible dual-band photodetectors by integrating Chlorin e6 with Ga₂O₃. Chinese Physics B, 2021, 30, 078504.	0.7	6
125	Sensors: Gas Dielectric Transistor of CuPc Single Crystalline Nanowire for SO₂ Detection Down to Subâ€ppm Levels at Room Temperature (Adv. Mater. 16/2013). Advanced Materials, 2013, 25, 2376-2376.	11.1	5
126	Reprintable paper realized employing ZnO-based photocatalytic color conversion of dyes. Journal Physics D: Applied Physics, 2020, 53, 465107.	1.3	5

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127	Ultrasensitive monolayer-MoS2 heterojunction photodetectors realized via an asymmetric Fabry-Perot cavity. Science China Materials, 2022, 65, 1861-1868.	3.5	5
128	Effective control of microbial spoilage in soybeans by water-soluble ZnO nanoparticles. Food Chemistry, 2022, 388, 132994.	4.2	5
129	Grain Size Control of Calcined SnO₂ Nanocrystals: Raman Study and Room Temperature Ethanol Sensing Properties. Journal of Nanoscience and Nanotechnology, 2011, 11, 3592-3596.	0.9	4
130	A Novel Strategy for the Synthesis of CeO2/CeF3 Composite Powders with Improved Suspension Stability and Chemical Mechanical Polishing (CMP) Performance. Arabian Journal for Science and Engineering, 2015, 40, 2897-2901.	1.1	4
131	Point spread function of incoherent digital holography based on spiral phase modulation. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 014203.	0.2	3
132	Recent progress of ZnO hierarchical nanostructure for photovoltaic application. International Journal of Nanomanufacturing, 2016, 12, 336.	0.3	2
133	Preparation of multistage sheet-cluster ZnO photoanode via a solid state reaction and its property in DSSCs. Chemical Research in Chinese Universities, 2016, 32, 437-442.	1.3	2
134	A confined carbon dot-based self-calibrated fluorescence probe for visible and highly sensitive moisture readouts. Journal Physics D: Applied Physics, 2022, 55, 154001.	1.3	2
135	Deposition of ZnO:Al Thin Films by Ultrasonic Spray Pyrolysis. Advanced Materials Research, 0, 150-151, 1617-1620.	0.3	1
136	Preparation and Photoelectric Properties of ZnO Arrays with Top Hollow Pits. Asian Journal of Chemistry, 2014, 26, 8277-8280.	0.1	1
137	Grain Size Control and Ethanol Sensing Properties of Calcined SnO₂ Nanoparticles. Advanced Materials Research, 0, 266, 76-79.	0.3	0
138	Morphology-Controlled Synthesis of 1D ZnO Nanostructures by Hydrothermal Technique. Advanced Materials Research, 2011, 266, 17-21.	0.3	0
139	Efficiency enhance the photoluminescence of ZnO nanowires array by the surface plasmonic effect of Au nanoparticles. International Journal of Nanomanufacturing, 2016, 12, 308.	0.3	0
140	Functional Devices for Clean Energy and Advanced Sensor Applications. Journal of Nanomaterials, 2016, 2016, 1-2.	1.5	0
141	Pentaheptite diamond: a new carbon allotrope. Journal of Physics Condensed Matter, 2022, 34, 184003.	0.7	0
142	Back Cover Image: Volume 3 Issue 2. SmartMat, 2022, 3, .	6.4	0