

# Shu Ping Lau

## List of Publications by Year in descending order

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380  
papers

22,818  
citations

8749

75  
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11303

136  
g-index

389  
all docs

389  
docs citations

389  
times ranked

25539  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Ultraviolet Photoluminescence of Water-Soluble Self-Passivated Graphene Quantum Dots. ACS Nano, 2012, 6, 5102-5110.	7.3	1,526
2	Infrared Photodetectors Based on CVD-Grown Graphene and PbS Quantum Dots with Ultrahigh Responsivity. Advanced Materials, 2012, 24, 5878-5883.	11.1	698
3	Exceptional Tunability of Band Energy in a Compressively Strained Trilayer MoS <sub>2</sub> Sheet. ACS Nano, 2013, 7, 7126-7131.	7.3	550
4	Graphene quantum dots from chemistry to applications. Materials Today Chemistry, 2018, 10, 221-258.	1.7	539
5	High-Electron-Mobility and Air-Stable 2D Layered PtSe <sub>2</sub> FETs. Advanced Materials, 2017, 29, 1604230.	11.1	502
6	Deep Ultraviolet to Near-Infrared Emission and Photoresponse in Layered N-Doped Graphene Quantum Dots. ACS Nano, 2014, 8, 6312-6320.	7.3	455
7	Extraordinarily Strong Interlayer Interaction in 2D Layered PtS <sub>2</sub> . Advanced Materials, 2016, 28, 2399-2407.	11.1	415
8	Photoluminescence study of ZnO films prepared by thermal oxidation of Zn metallic films in air. Journal of Applied Physics, 2003, 94, 354-358.	1.1	385
9	Stable Superhydrophobic Surface via Carbon Nanotubes Coated with a ZnO Thin Film. Journal of Physical Chemistry B, 2005, 109, 7746-7748.	1.2	328
10	Fast, Self-Driven, Air-Stable, and Broadband Photodetector Based on Vertically Aligned PtSe <sub>2</sub> /GaAs Heterojunction. Advanced Functional Materials, 2018, 28, 1705970.	7.8	314
11	Multilayered PdSe <sub>2</sub> /Perovskite Schottky Junction for Fast, Self-Powered, Polarization-Sensitive, Broadband Photodetectors, and Image Sensor Application. Advanced Science, 2019, 6, 1901134.	5.6	308
12	Exceptional catalytic effects of black phosphorus quantum dots in shuttling-free lithium sulfur batteries. Nature Communications, 2018, 9, 4164.	5.8	304
13	Stretchable all-solid-state supercapacitor with wavy shaped polyaniline/graphene electrode. Journal of Materials Chemistry A, 2014, 2, 9142-9149.	5.2	299
14	The Application of Highly Doped Single-Layer Graphene as the Top Electrodes of Semitransparent Organic Solar Cells. ACS Nano, 2012, 6, 810-818.	7.3	297
15	Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. Advanced Functional Materials, 2019, 29, 1806878.	7.8	286
16	Functionalized graphene and other two-dimensional materials for photovoltaic devices: device design and processing. Chemical Society Reviews, 2015, 44, 5638-5679.	18.7	283
17	Energy-level structure of nitrogen-doped graphene quantum dots. Journal of Materials Chemistry C, 2013, 1, 4908.	2.7	277
18	Wafer-Scale Synthesis of High-Quality Semiconducting Two-Dimensional Layered InSe with Broadband Photoresponse. ACS Nano, 2017, 11, 4225-4236.	7.3	277

#	ARTICLE	IF	CITATIONS
19	Field-Effect Transistors Based on Amorphous Black Phosphorus Ultrathin Films by Pulsed Laser Deposition. <i>Advanced Materials</i> , 2015, 27, 3748-3754.	11.1	274
20	Sulphur doping: a facile approach to tune the electronic structure and optical properties of graphene quantum dots. <i>Nanoscale</i> , 2014, 6, 5323-5328.	2.8	267
21	Bottom-up synthesis of large-scale graphene oxide nanosheets. <i>Journal of Materials Chemistry</i> , 2012, 22, 5676.	6.7	242
22	High-responsivity UV-Vis Photodetector Based on Transferable WS <sub>2</sub> Film Deposited by Magnetron Sputtering. <i>Scientific Reports</i> , 2016, 6, 20343.	1.6	230
23	Black Phosphorus-Polymer Composites for Pulsed Lasers. <i>Advanced Optical Materials</i> , 2015, 3, 1447-1453.	3.6	228
24	Comprehensive study of ZnO films prepared by filtered cathodic vacuum arc at room temperature. <i>Journal of Applied Physics</i> , 2003, 94, 1597-1604.	1.1	211
25	Random laser action in ZnO nanorod arrays embedded in ZnO epilayers. <i>Applied Physics Letters</i> , 2004, 84, 3241-3243.	1.5	210
26	Polycrystalline ZnO thin films on Si (100) deposited by filtered cathodic vacuum arc. <i>Journal of Crystal Growth</i> , 2001, 223, 201-205.	0.7	207
27	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 $\mu\text{m}$ . <i>Advanced Materials</i> , 2020, 32, e2004412.	11.1	202
28	Solution-Processable Ultrathin Black Phosphorus as an Effective Electron Transport Layer in Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2016, 26, 864-871.	7.8	187
29	Solution-Processed MoS <sub>2</sub> /Organolead Trihalide Perovskite Photodetectors. <i>Advanced Materials</i> , 2017, 29, 1603995.	11.1	187
30	Ultrafast and sensitive photodetector based on a PtSe <sub>2</sub> /silicon nanowire array heterojunction with a multiband spectral response from 200 to 1550 nm. <i>NPG Asia Materials</i> , 2018, 10, 352-362.	3.8	187
31	2D Layered Materials of Rare-Earth Er-Doped MoS <sub>2</sub> with NIR-to-NIR Down- and Up-Conversion Photoluminescence. <i>Advanced Materials</i> , 2016, 28, 7472-7477.	11.1	180
32	Size-Dependent Structural and Optical Characteristics of Glucose-Derived Graphene Quantum Dots. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 523-531.	1.2	175
33	UV Raman characteristics of nanocrystalline diamond films with different grain size. <i>Diamond and Related Materials</i> , 2000, 9, 1979-1983.	1.8	165
34	An efficient and stable fluorescent graphene quantum dot-agar composite as a converting material in white light emitting diodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 22378.	6.7	162
35	Multicolour light emission from chlorine-doped graphene quantum dots. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7308.	2.7	157
36	Layer-Dependent Nonlinear Optical Properties and Stability of Non-Centrosymmetric Modification in Few-Layer GaSe Sheets. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1185-1189.	7.2	156

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37	Highly responsive MoS <sub>2</sub> photodetectors enhanced by graphene quantum dots. <i>Scientific Reports</i> , 2015, 5, 11830.	1.6	155
38	Structural, electrical and optical properties of Al-doped ZnO thin films prepared by filtered cathodic vacuum arc technique. <i>Journal of Crystal Growth</i> , 2004, 268, 596-601.	0.7	150
39	A paper-based electrode using a graphene dot/PEDOT:PSS composite for flexible solar cells. <i>Nano Energy</i> , 2017, 36, 260-267.	8.2	135
40	Remarkably Enhanced Hydrogen Generation of Organolead Halide Perovskites via Piezocatalysis and Photocatalysis. <i>Advanced Energy Materials</i> , 2019, 9, 1901801.	10.2	134
41	Zinc oxide thin-film random lasers on silicon substrate. <i>Applied Physics Letters</i> , 2004, 84, 3244-3246.	1.5	133
42	Large-scale growth of few-layer two-dimensional black phosphorus. <i>Nature Materials</i> , 2021, 20, 1203-1209.	13.3	133
43	Tribological properties and adhesive strength of DLC coatings prepared under different substrate bias voltages. <i>Wear</i> , 2001, 249, 433-439.	1.5	131
44	Modulating Built-in Electric Field via Variable Oxygen Affinity for Robust Hydrogen Evolution Reaction in Neutral Media. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	130
45	Enhancement of near-band-edge photoluminescence from ZnO films by face-to-face annealing. <i>Journal of Crystal Growth</i> , 2003, 259, 335-342.	0.7	129
46	Liquid-phase exfoliation of black phosphorus and its applications. <i>FlatChem</i> , 2017, 2, 15-37.	2.8	129
47	<i>In Situ</i> Phase Transformation on Nickel-Based Selenides for Enhanced Hydrogen Evolution Reaction in Alkaline Medium. <i>ACS Energy Letters</i> , 2020, 5, 2483-2491.	8.8	124
48	Origin of room temperature ferromagnetism in ZnO:Cu films. <i>Journal of Applied Physics</i> , 2006, 99, 086101.	1.1	121
49	Constructing Interfacial Energy Transfer for Photon Up- and Down-Conversion from Lanthanides in a Core-Shell Nanostructure. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12356-12360.	7.2	118
50	Efficiency Enhancement of Silicon Heterojunction Solar Cells via Photon Management Using Graphene Quantum Dot as Downconverters. <i>Nano Letters</i> , 2016, 16, 309-313.	4.5	115
51	Black Phosphorus Quantum Dots Used for Boosting Light Harvesting in Organic Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13717-13721.	7.2	113
52	Wafer-Scale Fabrication of Two-Dimensional PtSe <sub>2</sub> /PtSe <sub>2</sub> Heterojunctions for Efficient and Broad band Photodetection. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40614-40622.	4.0	110
53	Tunable active edge sites in PtSe <sub>2</sub> films towards hydrogen evolution reaction. <i>Nano Energy</i> , 2017, 42, 26-33.	8.2	109
54	Direct Growth of ZnO Nanocrystals onto the Surface of Porous TiO <sub>2</sub> Nanotube Arrays for Highly Efficient and Recyclable Photocatalysts. <i>Small</i> , 2009, 5, 2260-2264.	5.2	105

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55	Ferroelectricity in untwisted heterobilayers of transition metal dichalcogenides. <i>Science</i> , 2022, 376, 973-978.	6.0	105
56	Magnetic anisotropy in the ferromagnetic Cu-doped ZnO nanoneedles. <i>Applied Physics Letters</i> , 2007, 90, 032509.	1.5	102
57	Giant Anisotropic Raman Response of Encapsulated Ultrathin Black Phosphorus by Uniaxial Strain. <i>Advanced Functional Materials</i> , 2017, 27, 1600986.	7.8	100
58	Preparation and characterization of few-layer MoS <sub>2</sub> nanosheets and their good nonlinear optical responses in the PMMA matrix. <i>Nanoscale</i> , 2014, 6, 9713-9719.	2.8	98
59	Fabrication of n-ZnO:Al <sup>+</sup> p-SiC(4H) heterojunction light-emitting diodes by filtered cathodic vacuum arc technique. <i>Applied Physics Letters</i> , 2005, 86, 241111.	1.5	97
60	Economical low-light photovoltaics by using the Pt-free dye-sensitized solar cell with graphene dot/PEDOT:PSS counter electrodes. <i>Nano Energy</i> , 2015, 18, 109-117.	8.2	97
61	Hard carbon nanocomposite films with low stress. <i>Diamond and Related Materials</i> , 2001, 10, 1082-1087.	1.8	91
62	Distinctive in-Plane Cleavage Behaviors of Two-Dimensional Layered Materials. <i>ACS Nano</i> , 2016, 10, 8980-8988.	7.3	90
63	Directional edge-emitting UV random laser diodes. <i>Applied Physics Letters</i> , 2006, 89, 221109.	1.5	89
64	Enhancement of ultraviolet lasing from Ag-coated highly disordered ZnO films by surface-plasmon resonance. <i>Applied Physics Letters</i> , 2007, 90, 231106.	1.5	88
65	Emerging opportunities for black phosphorus in energy applications. <i>Materials Today Energy</i> , 2019, 12, 1-25.	2.5	88
66	Substrate bias dependence of Raman spectra for TiN films deposited by filtered cathodic vacuum arc. <i>Journal of Applied Physics</i> , 2002, 92, 1845-1849.	1.1	87
67	Bond contraction and lone pair interaction at nitride surfaces. <i>Journal of Applied Physics</i> , 2001, 90, 2615-2617.	1.1	85
68	Highly impermeable and transparent graphene as an ultra-thin protection barrier for Ag thin films. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4956.	2.7	85
69	Tribological characterisation of diamond-like carbon coatings on Co-Cr-Mo alloy for orthopaedic applications. <i>Surface and Coatings Technology</i> , 2001, 146-147, 410-416.	2.2	83
70	An extended 'quantum confinement' theory: surface-coordination imperfection modifies the entire band structure of a nanosolid. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 3470-3479.	1.3	82
71	Molecular beam epitaxy growth of high quality p-doped SnS van der Waals epitaxy on a graphene buffer layer. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	78
72	Laser action in ZnO nanoneedles selectively grown on silicon and plastic substrates. <i>Applied Physics Letters</i> , 2005, 87, 013104.	1.5	77

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73	Zn-interstitial-enhanced ferromagnetism in Cu-doped ZnO films. Journal of Magnetism and Magnetic Materials, 2007, 315, 107-110.	1.0	77
74	Metal-containing amorphous carbon films for hydrophobic application. Thin Solid Films, 2001, 398-399, 110-115.	0.8	76
75	Magnetotransport properties of p-type carbon-doped ZnO thin films. Applied Physics Letters, 2009, 95, .	1.5	76
76	Si Hybrid Solar Cells with 13% Efficiency <i>via</i> Concurrent Improvement in Optical and Electrical Properties by Employing Graphene Quantum Dots. ACS Nano, 2016, 10, 815-821.	7.3	76
77	Evolution of visible luminescence in ZnO by thermal oxidation of zinc films. Chemical Physics Letters, 2003, 375, 113-118.	1.2	75
78	Exciton radiative lifetime in ZnO nanorods fabricated by vapor phase transport method. Applied Physics Letters, 2007, 90, 013107.	1.5	74
79	Structural and tribological characterization of multilayer ta-C films prepared by filtered cathodic vacuum arc with substrate pulse biasing. Surface and Coatings Technology, 2000, 132, 228-232.	2.2	73
80	Functionalized 2D nanomaterials for gene delivery applications. Coordination Chemistry Reviews, 2017, 347, 77-97.	9.5	73
81	Aqueous Manganese Dioxide Ink for Paper-Based Capacitive Energy Storage Devices. Angewandte Chemie - International Edition, 2015, 54, 6800-6803.	7.2	69
82	Recent progress in group III-nitride nanostructures: From materials to applications. Materials Science and Engineering Reports, 2020, 142, 100578.	14.8	65
83	Near-field focusing properties of zone plates in visible regime - New insights. Optics Express, 2008, 16, 9554.	1.7	64
84	X-ray generation using carbon-nanofiber-based flexible field emitters. Applied Physics Letters, 2006, 88, 103105.	1.5	62
85	Ni induced few-layer graphene growth at low temperature by pulsed laser deposition. AIP Advances, 2011, 1, .	0.6	62
86	Structural and mechanical properties of nitrogen ion implanted ultra high molecular weight polyethylene. Surface and Coatings Technology, 2001, 138, 33-38.	2.2	60
87	Photoresponse of polyaniline-functionalized graphene quantum dots. Nanoscale, 2015, 7, 5338-5343.	2.8	60
88	Ferroelectric-Driven Performance Enhancement of Graphene Field-Effect Transistors Based on Vertical Tunneling Heterostructures. Advanced Materials, 2016, 28, 10048-10054.	11.1	58
89	Structural and optical properties of ZnO thin films produced by filtered cathodic vacuum arc. Thin Solid Films, 2001, 398-399, 244-249.	0.8	57
90	Tuning nonlinear optical absorption properties of WS <sub>2</sub> nanosheets. Nanoscale, 2015, 7, 17771-17777.	2.8	57

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91	Potassium doping: Tuning the optical properties of graphene quantum dots. AIP Advances, 2016, 6, .	0.6	57
92	Resonant Raman scattering studies of Fano-type interference in boron doped diamond. Journal of Applied Physics, 2002, 92, 7253-7256.	1.1	56
93	Ultraviolet amplified spontaneous emission from zinc oxide ridge waveguides on silicon substrate. Applied Physics Letters, 2003, 83, 4288-4290.	1.5	56
94	Optically and electrically tunable graphene quantum dotâ€“polyaniline composite films. Journal of Materials Chemistry C, 2014, 2, 4526-4532.	2.7	56
95	High-Performance Deep Ultraviolet Photodetector Based on NiO/ $\text{Ga}_2\text{O}_3$ Heterojunction. Nanoscale Research Letters, 2020, 15, 47.	3.1	55
96	Ultraviolet and visible Raman studies of nitrogenated tetrahedral amorphous carbon films. Thin Solid Films, 2000, 366, 169-174.	0.8	54
97	Ferroelectric Polarization Effects on the Transport Properties of Graphene/PMN-PT Field Effect Transistors. Journal of Physical Chemistry C, 2013, 117, 13747-13752.	1.5	53
98	Fabrication of Largeâ€“Scale Singleâ€“Crystalline $\text{PrB}_6$ Nanorods and Their Temperatureâ€“Dependent Electron Field Emission. Advanced Functional Materials, 2009, 19, 742-747.	7.8	52
99	Carbon nanotube films prepared by thermal chemical vapor deposition at low temperature for field emission applications. Applied Physics Letters, 2001, 79, 1670-1672.	1.5	51
100	Mechanisms for the behavior of carbon films during annealing. Physical Review B, 2004, 70, .	1.1	51
101	Field emission from zinc oxide nanoneedles on plastic substrates. Nanotechnology, 2005, 16, 1300-1303.	1.3	51
102	Fabrication of Covalently Functionalized Graphene Oxide Incorporated Solid-State Hybrid Silica Gel Glasses and Their Improved Nonlinear Optical Response. Journal of Physical Chemistry C, 2013, 117, 23108-23116.	1.5	51
103	Microstructure and mechanical properties of nanocomposite amorphous carbon films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1390-1394.	0.9	50
104	Observations of nitrogen-related photoluminescence bands from nitrogen-doped ZnO films. Journal of Crystal Growth, 2003, 252, 265-269.	0.7	50
105	Reliable and flexible carbon-nanofiber-based all-plastic field emission devices. Applied Physics Letters, 2007, 90, 143103.	1.5	50
106	Dependence of electrical and optical properties of ZnO films on substrate temperature. Materials Science in Semiconductor Processing, 2001, 4, 617-620.	1.9	49
107	Ultraviolet coherent random lasing in randomly assembled $\text{SnO}_2$ nanowires. Applied Physics Letters, 2009, 94, .	1.5	49
108	Metallo-Dielectric Photonic Crystals for Surface-Enhanced Raman Scattering. ACS Nano, 2011, 5, 3027-3033.	7.3	49

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109	Size and Dopant Dependent Single Particle Fluorescence Properties of Graphene Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17988-17994.	1.5	49
110	Effects of controllable biaxial strain on the Raman spectra of monolayer graphene prepared by chemical vapor deposition. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	48
111	Resonant Raman studies of tetrahedral amorphous carbon films. <i>Diamond and Related Materials</i> , 2001, 10, 76-81.	1.8	47
112	Dielectric suppression and its effect on photoabsorption of nanometric semiconductors. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 2359-2362.	1.3	47
113	Thermally induced sp <sup>2</sup> clustering in tetrahedral amorphous carbon (ta-C) films. <i>Journal of Applied Physics</i> , 2004, 96, 6286-6297.	1.1	47
114	Evaluating the fracture properties and fatigue wear of tetrahedral amorphous carbon films on silicon by nano-impact testing. <i>Surface and Coatings Technology</i> , 2004, 177-178, 611-615.	2.2	47
115	Amplified Spontaneous Emission from Organic-Inorganic Hybrid Lead Iodide Perovskite Single Crystals under Direct Multiphoton Excitation. <i>Advanced Optical Materials</i> , 2016, 4, 1053-1059.	3.6	47
116	Flexible Ultraviolet Random Lasers Based on Nanoparticles. <i>Small</i> , 2005, 1, 956-959.	5.2	46
117	Nanotribological and nanomechanical properties of 5-80 nm tetrahedral amorphous carbon films on silicon. <i>Diamond and Related Materials</i> , 2005, 14, 1535-1542.	1.8	46
118	Self-reconstruction mechanism in NiSe <sub>2</sub> nanoparticles/carbon fiber paper bifunctional electrocatalysts for water splitting. <i>Electrochimica Acta</i> , 2019, 305, 37-46.	2.6	46
119	Low-loss and directional output ZnO thin-film ridge waveguide random lasers with MgO capped layer. <i>Applied Physics Letters</i> , 2005, 86, 031112.	1.5	45
120	Stable ferromagnetism in p-type carbon-doped ZnO nanoneedles. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	45
121	Polyethylenimine-Modified Graphene Oxide as a Novel Antibacterial Agent and Its Synergistic Effect with Daptomycin for Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>ACS Applied Nano Materials</i> , 2018, 1, 1811-1818.	2.4	45
122	Internal stress and surface morphology of zinc oxide thin films deposited by filtered cathodic vacuum arc technique. <i>Thin Solid Films</i> , 2004, 458, 15-19.	0.8	44
123	Mechanistic Understanding of Excitation-Correlated Nonlinear Optical Properties in MoS <sub>2</sub> Nanosheets and Nanodots: The Role of Exciton Resonance. <i>ACS Photonics</i> , 2016, 3, 2434-2444.	3.2	44
124	Liquid-phase exfoliation of violet phosphorus for electronic applications. <i>SmartMat</i> , 2021, 2, 226-233.	6.4	44
125	Functionalization of graphene quantum dots by fluorine: Preparation, properties, application, and their mechanisms. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	43
126	Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. <i>ACS Nano</i> , 2020, 14, 10018-10026.	7.3	43



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127	High-temperature random lasing in ZnO nanoneedles. Applied Physics Letters, 2006, 89, 011103.	1.5	42
128	Simultaneous formation of visible and ultraviolet random lasings in ZnO films. Applied Physics Letters, 2006, 89, 021110.	1.5	42
129	<i>In situ</i> observation of the thermal stability of black phosphorus. 2D Materials, 2017, 4, 025001.	2.0	42
130	Unlocking surface octahedral tilt in two-dimensional Ruddlesden-Popper perovskites. Nature Communications, 2022, 13, 138.	5.8	42
131	Blue electroluminescence from tris-(8-hydroxyquinoline) aluminum thin film. Chemical Physics Letters, 2000, 325, 420-424.	1.2	41
132	Low stress thick diamond-like carbon films prepared by filtered arc deposition for tribological applications. Surface and Coatings Technology, 2002, 154, 289-293.	2.2	41
133	Ultraviolet photoluminescence from ferromagnetic Fe-doped AlN nanorods. Applied Physics Letters, 2007, 90, 193118.	1.5	41
134	Ultraviolet Electroluminescence from Randomly Assembled $\text{In-SnO}_2$ Nanowires $\text{p-GaN:Mg}$ Heterojunction. ACS Applied Materials & Interfaces, 2010, 2, 1191-1194.	4.0	41
135	Omnidirectional Harvesting of Weak Light Using a Graphene Quantum Dot-Modified Organic/Silicon Hybrid Device. ACS Nano, 2017, 11, 4564-4570.	7.3	41
136	High-Temperature Lasing Characteristics of ZnO Epilayers. Advanced Materials, 2006, 18, 771-774.	11.1	40
137	Carbon nanofibers and multiwalled carbon nanotubes from camphor and their field electron emission. Current Applied Physics, 2009, 9, 144-150.	1.1	40
138	A deep ultraviolet to near-infrared photoresponse from glucose-derived graphene oxide. Journal of Materials Chemistry C, 2014, 2, 6971-6977.	2.7	40
139	Hydroelectric generator from transparent flexible zinc oxide nanofilms. Nano Energy, 2017, 32, 125-129.	8.2	40
140	Ultraviolet lasing of ZnO whiskers prepared by catalyst-free thermal evaporation. Chemical Physics Letters, 2003, 377, 329-332.	1.2	39
141	Strain dependence of lasing mechanisms in ZnO epilayers. Applied Physics Letters, 2005, 86, 261111.	1.5	39
142	Ferromagnetic Cu-doped AlN nanorods. Nanotechnology, 2007, 18, 105601.	1.3	39
143	Intrinsic Conductance of Domain Walls in $\text{BiFeO}_3$ . Advanced Materials, 2019, 31, e1902099.	11.1	39
144	Laser-Assisted Ultrafast Exfoliation of Black Phosphorus in Liquid with Tunable Thickness for Li-Ion Batteries. Advanced Energy Materials, 2020, 10, 1903490.	10.2	39

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145	Design and fabrication of ZnO light-emitting devices using filtered cathodic vacuum arc technique. Journal of Crystal Growth, 2006, 287, 204-212.	0.7	37
146	Vertically-Aligned Single-Crystal Nanocone Arrays: Controlled Fabrication and Enhanced Field Emission. ACS Applied Materials & Interfaces, 2016, 8, 472-479.	4.0	37
147	MnSe <sub>2</sub> nanocubes as an anode material for sodium-ion batteries. Materials Today Energy, 2018, 10, 62-67.	2.5	37
148	Atomically Resolved Electrically Active Intragrain Interfaces in Perovskite Semiconductors. Journal of the American Chemical Society, 2022, 144, 1910-1920.	6.6	37
149	Improved thin films of pentacene via pulsed laser deposition at elevated substrate temperatures. Applied Physics Letters, 1996, 69, 2231-2233.	1.5	36
150	Facile preparation of sulphur-doped graphene quantum dots for ultra-high performance ultraviolet photodetectors. New Journal of Chemistry, 2017, 41, 10447-10451.	1.4	36
151	Mechanical and tribological characterization of diamond-like carbon coatings on orthopedic materials. Diamond and Related Materials, 2001, 10, 1043-1048.	1.8	35
152	Structural and electrical properties of copper thin films prepared by filtered cathodic vacuum arc technique. Surface and Coatings Technology, 2001, 138, 250-255.	2.2	35
153	Polymeric Carbon Nitride Nanosheets/Graphene Hybrid Phototransistors with High Responsivity. Advanced Optical Materials, 2016, 4, 555-561.	3.6	35
154	Inkjet printed pseudocapacitive electrodes on laser-induced graphene for electrochemical energy storage. Materials Today Energy, 2019, 12, 155-160.	2.5	35
155	Carbon nanotubes synthesized by biased thermal chemical vapor deposition as an electron source in an x-ray tube. Applied Physics Letters, 2005, 86, 123115.	1.5	34
156	<i>In Situ</i> Scanning Transmission Electron Microscopy Observations of Fracture at the Atomic Scale. Physical Review Letters, 2020, 125, 246102.	2.9	34
157	Ferroelectricity and Rashba effect in 2D organic-inorganic hybrid perovskites. Trends in Chemistry, 2021, 3, 716-732.	4.4	34
158	Surface energy of metal containing amorphous carbon films deposited by filtered cathodic vacuum arc. Diamond and Related Materials, 2004, 13, 459-464.	1.8	33
159	Magnetotransport Properties of Layered Topological Material ZrTe <sub>2</sub> Thin Film. ACS Nano, 2019, 13, 6008-6016.	7.3	33
160	Raman spectroscopy of carbon nitride films deposited using the filtered cathodic vacuum-arc technique combined with a radio-frequency nitrogen-ion beam. Applied Physics A: Materials Science and Processing, 2001, 73, 341-345.	1.1	32
161	Surface energy of amorphous carbon films containing iron. Journal of Applied Physics, 2001, 89, 7814-7819.	1.1	32
162	Structural and mechanical properties of Ti-containing diamond-like carbon films deposited by filtered cathodic vacuum arc. Thin Solid Films, 2002, 408, 183-187.	0.8	32

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163	Microstructural and optical properties of aluminum oxide thin films prepared by off-plane filtered cathodic vacuum arc system. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003, 21, 906-910.	0.9	32
164	Study of mechanical properties and stress of tetrahedral amorphous carbon films prepared by pulse biasing. <i>Surface and Coatings Technology</i> , 2005, 195, 338-343.	2.2	32
165	Effect of frequency and pulse width on the properties of ta:C films prepared by FCVA together with substrate pulse biasing. <i>Thin Solid Films</i> , 2002, 420-421, 62-69.	0.8	31
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