

Shu Ping Lau

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

357
papers

18,068
citations

68
h-index

121
g-index

389
ext. papers

20,275
ext. citations

6.3
avg, IF

6.76
L-index

#	Paper	IF	Citations
357	Unlocking surface octahedral tilt in two-dimensional Ruddlesden-Popper perovskites.. <i>Nature Communications</i> , 2022 , 13, 138	17.4	7
356	Atomically Resolved Electrically Active Intragrain Interfaces in Perovskite Semiconductors.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	7
355	Ferroelectricity in untwisted heterobilayers of transition metal dichalcogenides. <i>Science</i> , 2022 , 376, 973-978	33.9	7
354	Self-supporting CoP-C nanosheet arrays derived from a metal-organic framework as synergistic catalysts for efficient water splitting. <i>Dalton Transactions</i> , 2021 , 50, 17549-17558	4.3	3
353	Edge-Orientation Dependent Nanoimaging of Mid-Infrared Waveguide Modes in High-Index PtSe ₂ . <i>Advanced Optical Materials</i> , 2021 , 9, 2100294	8.1	3
352	Large-scale growth of few-layer two-dimensional black phosphorus. <i>Nature Materials</i> , 2021 , 20, 1203-1209	20.9	43
351	Liquid-phase exfoliation of violet phosphorus for electronic applications. <i>SmartMat</i> , 2021 , 2, 226-233	22.8	13
350	AgS monolayer: an ultrasoft inorganic Lieb lattice. <i>Nanoscale</i> , 2021 , 13, 14008-14015	7.7	1
349	Large-Area Tellurium/Germanium Heterojunction Grown by Molecular Beam Epitaxy for High-Performance Self-Powered Photodetector. <i>Advanced Optical Materials</i> , 2021 , 9, 2101052	8.1	4
348	Ferroelectricity and Rashba effect in 2D organic-inorganic hybrid perovskites. <i>Trends in Chemistry</i> , 2021 , 3, 716-732	14.8	7
347	Unveiling the Critical Intermediate Stages During Chemical Vapor Deposition of Two-Dimensional Rhenium Diselenide. <i>Chemistry of Materials</i> , 2021 , 33, 7039-7046	9.6	0
346	In Situ Scanning Transmission Electron Microscopy Observations of Fracture at the Atomic Scale. <i>Physical Review Letters</i> , 2020 , 125, 246102	7.4	16
345	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 μm . <i>Advanced Materials</i> , 2020 , 32, e2004412	24	86
344	Infrared Nanoimaging of Surface Plasmons in Type-II Dirac Semimetal PtTe Nanoribbons. <i>ACS Nano</i> , 2020 , 14, 6276-6284	16.7	15
343	Synthesis, properties, and applications of 2D amorphous inorganic materials. <i>Journal of Applied Physics</i> , 2020 , 127, 220901	2.5	6
342	Laser-Assisted Ultrafast Exfoliation of Black Phosphorus in Liquid with Tunable Thickness for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903490	21.8	22
341	In Situ Phase Transformation on Nickel-Based Selenides for Enhanced Hydrogen Evolution Reaction in Alkaline Medium. <i>ACS Energy Letters</i> , 2020 , 5, 2483-2491	20.1	47

340	High-Performance Deep Ultraviolet Photodetector Based on NiO/EGaO Heterojunction. <i>Nanoscale Research Letters</i> , 2020 , 15, 47	5	25
339	Facile synthesis of ZnS quantum dots at room temperature for ultra-violet photodetector applications. <i>Chemical Physics Letters</i> , 2020 , 742, 137127	2.5	10
338	Tantalum disulfide quantum dots: preparation, structure, and properties. <i>Nanoscale Research Letters</i> , 2020 , 15, 20	5	5
337	Infrared photodetector based on GeTe nanofilms with high performance. <i>Optics Letters</i> , 2020 , 45, 1108-1111	3.111	6
336	Infrared photovoltaic detector based on p-GeTe/n-Si heterojunction. <i>Nanoscale Research Letters</i> , 2020 , 15, 138	5	5
335	Photoresponse of wafer-scale palladium diselenide films prepared by selenization method. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 065102	3	5
334	Thickness-dependent magnetotransport properties in 1T VSe single crystals prepared by chemical vapor deposition. <i>Nanotechnology</i> , 2020 , 31, 145712	3.4	11
333	Preparation and photoelectric properties of SnOx films with tunable optical bandgap. <i>Chemical Physics Letters</i> , 2020 , 739, 137039	2.5	0
332	Recent progress in group III-nitride nanostructures: From materials to applications. <i>Materials Science and Engineering Reports</i> , 2020 , 142, 100578	30.9	28
331	Anomalous fracture in two-dimensional rhenium disulfide. <i>Science Advances</i> , 2020 , 6,	14.3	8
330	Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. <i>ACS Nano</i> , 2020 , 14, 10018-10026	16.7	22
329	Mid-Infrared Photodetectors: Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 μm (Adv. Mater. 52/2020). <i>Advanced Materials</i> , 2020 , 32, 2070394	24	4
328	Efficient hole transfer from monolayer WS to ultrathin amorphous black phosphorus. <i>Nanoscale Horizons</i> , 2019 , 4, 236-242	10.8	19
327	Inkjet printed pseudocapacitive electrodes on laser-induced graphene for electrochemical energy storage. <i>Materials Today Energy</i> , 2019 , 12, 155-160	7	25
326	Magnetotransport Properties of Layered Topological Material ZrTe Thin Film. <i>ACS Nano</i> , 2019 , 13, 6008-6016	60.16	26
325	Preparation and photoelectric properties of cadmium sulfide quantum dots. <i>Chinese Physics B</i> , 2019 , 28, 047803	1.2	3
324	Self-reconstruction mechanism in NiSe ₂ nanoparticles/carbon fiber paper bifunctional electrocatalysts for water splitting. <i>Electrochimica Acta</i> , 2019 , 305, 37-46	6.7	32
323	Recent Advances in Graphene Homogeneous p-n Junction for Optoelectronics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900007	6.8	11

322	Remarkably Enhanced Hydrogen Generation of Organolead Halide Perovskites via Piezocatalysis and Photocatalysis. <i>Advanced Energy Materials</i> , 2019 , 9, 1901801	21.8	83
321	Log-periodic quantum magneto-oscillations and discrete-scale invariance in topological material HfTe. <i>National Science Review</i> , 2019 , 6, 914-920	10.8	10
320	Multilayered PdSe/Perovskite Schottky Junction for Fast, Self-Powered, Polarization-Sensitive, Broadband Photodetectors, and Image Sensor Application. <i>Advanced Science</i> , 2019 , 6, 1901134	13.6	170
319	Intrinsic Conductance of Domain Walls in BiFeO. <i>Advanced Materials</i> , 2019 , 31, e1902099	24	22
318	InS Quantum Dots: Preparation, Properties and Optoelectronic Application. <i>Nanoscale Research Letters</i> , 2019 , 14, 161	5	11
317	SnS 2 quantum dots: Facile synthesis, properties, and applications in ultraviolet photodetector. <i>Chinese Physics B</i> , 2019 , 28, 037801	1.2	5
316	Emerging opportunities for black phosphorus in energy applications. <i>Materials Today Energy</i> , 2019 , 12, 1-25	7	63
315	Photodetectors: Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications (Adv. Funct. Mater. 1/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970005	15.6	9
314	Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1806878	15.6	187
313	Tunable Schottky barriers in ultrathin black phosphorus field effect transistors via polymer capping. <i>2D Materials</i> , 2019 , 6, 024001	5.9	12
312	Ultrafast and sensitive photodetector based on a PtSe ₂ /silicon nanowire array heterojunction with a multiband spectral response from 200 to 1550 nm. <i>NPG Asia Materials</i> , 2018 , 10, 352-362	10.3	136
311	Polyethylenimine-Modified Graphene Oxide as a Novel Antibacterial Agent and Its Synergistic Effect with Daptomycin for Methicillin-Resistant Staphylococcus aureus. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1811-1818	5.6	28
310	Fast, Self-Driven, Air-Stable, and Broadband Photodetector Based on Vertically Aligned PtSe ₂ /GaAs Heterojunction. <i>Advanced Functional Materials</i> , 2018 , 28, 1705970	15.6	207
309	In situ TEM study of the sodiation/desodiation mechanism of MnO ₂ nanowire with gel-electrolytes. <i>Energy Storage Materials</i> , 2018 , 15, 91-97	19.4	15
308	High photoelectrochemical activity and stability of Au-WS ₂ /silicon heterojunction photocathode. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 300-306	6.4	13
307	Kinetically controlled redox behaviors of K _{0.3} MnO ₂ electrodes for high performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10803-10812	13	9
306	Photodetectors: Fast, Self-Driven, Air-Stable, and Broadband Photodetector Based on Vertically Aligned PtSe ₂ /GaAs Heterojunction (Adv. Funct. Mater. 16/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870106	15.6	2
305	Facile synthesis of AgBiS nanocrystals for high responsivity infrared detectors.. <i>RSC Advances</i> , 2018 , 8, 39203-39207	3.7	7

304	Graphene quantum dots from chemistry to applications. <i>Materials Today Chemistry</i> , 2018 , 10, 221-258	6.2	306
303	Exceptional catalytic effects of black phosphorus quantum dots in shuttling-free lithium sulfur batteries. <i>Nature Communications</i> , 2018 , 9, 4164	17.4	210
302	Wafer-Scale Fabrication of Two-Dimensional PtS/PtSe Heterojunctions for Efficient and Broad band Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40614-40622	9.5	70
301	MnSe ₂ nanocubes as an anode material for sodium-ion batteries. <i>Materials Today Energy</i> , 2018 , 10, 62-67		20
300	Enhancement of photo-electrochemical reactions in MAPbI ₃ /Au. <i>Materials Today Energy</i> , 2018 , 9, 303-310		6
299	Giant Anisotropic Raman Response of Encapsulated Ultrathin Black Phosphorus by Uniaxial Strain. <i>Advanced Functional Materials</i> , 2017 , 27, 1600986	15.6	81
298	In situ observation of the thermal stability of black phosphorus. <i>2D Materials</i> , 2017 , 4, 025001	5.9	29
297	Selenium quantum dots: Preparation, structure, and properties. <i>Applied Physics Letters</i> , 2017 , 110, 053104	9.4	9
296	Liquid-phase exfoliation of black phosphorus and its applications. <i>FlatChem</i> , 2017 , 2, 15-37	5.1	104
295	A paper-based electrode using a graphene dot/PEDOT:PSS composite for flexible solar cells. <i>Nano Energy</i> , 2017 , 36, 260-267	17.1	115
294	Omnidirectional Harvesting of Weak Light Using a Graphene Quantum Dot-Modified Organic/Silicon Hybrid Device. <i>ACS Nano</i> , 2017 , 11, 4564-4570	16.7	32
293	Hydroelectric generator from transparent flexible zinc oxide nanofilms. <i>Nano Energy</i> , 2017 , 32, 125-129	17.1	29
292	Large-area uniform electron doping of graphene by Ag nanofilm. <i>AIP Advances</i> , 2017 , 7, 045209	1.5	9
291	Functionalization of graphene quantum dots by fluorine: Preparation, properties, application, and their mechanisms. <i>Applied Physics Letters</i> , 2017 , 110, 221901	3.4	27
290	(Invited) Solution Exfoliated Black Phosphorus and Its Applications. <i>ECS Transactions</i> , 2017 , 77, 27-33	1	
289	Amorphous two-dimensional black phosphorus with exceptional photocarrier transport properties. <i>2D Materials</i> , 2017 , 4, 025063	5.9	16
288	Wafer-Scale Synthesis of High-Quality Semiconducting Two-Dimensional Layered InSe with Broadband Photoresponse. <i>ACS Nano</i> , 2017 , 11, 4225-4236	16.7	207
287	Superior Dielectric Screening in Two-Dimensional MoS Spirals. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37941-37946	9.5	4

286	Tunable active edge sites in PtSe ₂ films towards hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 42, 26-33	17.1	77
285	Black Phosphorus Quantum Dots Used for Boosting Light Harvesting in Organic Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13717-13721	16.4	95
284	Black Phosphorus Quantum Dots Used for Boosting Light Harvesting in Organic Photovoltaics. <i>Angewandte Chemie</i> , 2017 , 129, 13905-13909	3.6	10
283	Functionalized 2D nanomaterials for gene delivery applications. <i>Coordination Chemistry Reviews</i> , 2017 , 347, 77-97	23.2	58
282	Facile preparation of sulphur-doped graphene quantum dots for ultra-high performance ultraviolet photodetectors. <i>New Journal of Chemistry</i> , 2017 , 41, 10447-10451	3.6	26
281	Tellurium quantum dots: Preparation and optical properties. <i>Applied Physics Letters</i> , 2017 , 111, 063112	3.4	5
280	Enhanced Photocatalytic Activity of WS Film by Laser Drilling to Produce Porous WS/WO Heterostructure. <i>Scientific Reports</i> , 2017 , 7, 3125	4.9	25
279	Solution-Processed MoS ₂ /Organolead Trihalide Perovskite Photodetectors. <i>Advanced Materials</i> , 2017 , 29, 1603995	24	149
278	High-Electron-Mobility and Air-Stable 2D Layered PtSe FETs. <i>Advanced Materials</i> , 2017 , 29, 1604230	24	368
277	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, 12356-60	16.4	93
276	Distinctive in-Plane Cleavage Behaviors of Two-Dimensional Layered Materials. <i>ACS Nano</i> , 2016 , 10, 8980-8987	16.7	60
275	Mechanistic Understanding of Excitation-Correlated Nonlinear Optical Properties in MoS ₂ Nanosheets and Nanodots: The Role of Exciton Resonance. <i>ACS Photonics</i> , 2016 , 3, 2434-2444	6.3	31
274	Effect of Uniaxial Strain on Low Frequency Raman Modes in Few Layers Molybdenum Disulfide. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, Q3033-Q3037	2	2
273	High-responsivity UV-Vis Photodetector Based on Transferable WS ₂ Film Deposited by Magnetron Sputtering. <i>Scientific Reports</i> , 2016 , 6, 20343	4.9	156
272	Solution-Processable Ultrathin Black Phosphorus as an Effective Electron Transport Layer in Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2016 , 26, 864-871	15.6	157
271	Extraordinarily Strong Interlayer Interaction in 2D Layered PtS ₂ . <i>Advanced Materials</i> , 2016 , 28, 2399-407	24	322
270	Polymeric Carbon Nitride Nanosheets/Graphene Hybrid Phototransistors with High Responsivity. <i>Advanced Optical Materials</i> , 2016 , 4, 555-561	8.1	28
269	Vertically-Aligned Single-Crystal Nanocone Arrays: Controlled Fabrication and Enhanced Field Emission. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 472-9	9.5	27

268	Si Hybrid Solar Cells with 13% Efficiency via Concurrent Improvement in Optical and Electrical Properties by Employing Graphene Quantum Dots. <i>ACS Nano</i> , 2016 , 10, 815-21	16.7	68
267	Efficiency Enhancement of Silicon Heterojunction Solar Cells via Photon Management Using Graphene Quantum Dot as Downconverters. <i>Nano Letters</i> , 2016 , 16, 309-13	11.5	99
266	2D Layered Materials of Rare-Earth Er-Doped MoS ₂ with NIR-to-NIR Down- and Up-Conversion Photoluminescence. <i>Advanced Materials</i> , 2016 , 28, 7472-7	24	130
265	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	8.1	39
264	High performance ultraviolet photodetectors based on ZnO nanoflakes/PVK heterojunction. <i>Applied Physics Letters</i> , 2016 , 109, 073103	3.4	21
263	Potassium doping: Tuning the optical properties of graphene quantum dots. <i>AIP Advances</i> , 2016 , 6, 075116	11.6	43
262	Aqueous Manganese Dioxide Ink for High Performance Capacitive Energy Storage Devices. <i>MRS Advances</i> , 2016 , 1, 3573-3578	0.7	1
261	Solution processable organic/inorganic hybrid ultraviolet photovoltaic detector. <i>AIP Advances</i> , 2016 , 6, 055318	1.5	9
260	Solution processable high-performance infrared organic photodetector by iodine doping. <i>RSC Advances</i> , 2016 , 6, 45166-45171	3.7	15
259	Ferroelectric-Driven Performance Enhancement of Graphene Field-Effect Transistors Based on Vertical Tunneling Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 10048-10054	24	45
258	Innenrücktitelbild: Constructing Interfacial Energy Transfer for Photon Up- and Down-Conversion from Lanthanides in a Core/Shell Nanostructure (Angew. Chem. 40/2016). <i>Angewandte Chemie</i> , 2016 , 128, 12731-12731	3.6	
257	Constructing Interfacial Energy Transfer for Photon Up- and Down-Conversion from Lanthanides in a Core/Shell Nanostructure. <i>Angewandte Chemie</i> , 2016 , 128, 12544-12548	3.6	11
256	Kinetically controlled synthesis of large-scale morphology-tailored silver nanostructures at low temperature. <i>Nanoscale</i> , 2015 , 7, 13420-6	7.7	6
255	Size and Dopant Dependent Single Particle Fluorescence Properties of Graphene Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17988-17994	3.8	35
254	Highly responsive MoS ₂ photodetectors enhanced by graphene quantum dots. <i>Scientific Reports</i> , 2015 , 5, 11830	4.9	131
253	Aqueous manganese dioxide ink for paper-based capacitive energy storage devices. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6800-3	16.4	61
252	Tuning nonlinear optical absorption properties of WS ₂ nanosheets. <i>Nanoscale</i> , 2015 , 7, 17771-7	7.7	46
251	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	17.1	85

250	Layer-Dependent Nonlinear Optical Properties and Stability of Non-Centrosymmetric Modification in Few-Layer GaSe Sheets. <i>Angewandte Chemie</i> , 2015 , 127, 1201-1205	3.6	19
249	Pulsed Lasers: Black Phosphorus Polymer Composites for Pulsed Lasers (Advanced Optical Materials 10/2015). <i>Advanced Optical Materials</i> , 2015 , 3, 1446-1446	8.1	6
248	Field-effect transistors based on amorphous black phosphorus ultrathin films by pulsed laser deposition. <i>Advanced Materials</i> , 2015 , 27, 3748-54	24	222
247	Aqueous Manganese Dioxide Ink for Paper-Based Capacitive Energy Storage Devices. <i>Angewandte Chemie</i> , 2015 , 127, 6904-6907	3.6	5
246	Layer-dependent nonlinear optical properties and stability of non-centrosymmetric modification in few-layer GaSe sheets. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1185-9	16.4	124
245	Black Phosphorus Polymer Composites for Pulsed Lasers. <i>Advanced Optical Materials</i> , 2015 , 3, 1447-1453	8.1	192
244	Functionalized graphene and other two-dimensional materials for photovoltaic devices: device design and processing. <i>Chemical Society Reviews</i> , 2015 , 44, 5638-79	58.5	238
243	Photoresponse of polyaniline-functionalized graphene quantum dots. <i>Nanoscale</i> , 2015 , 7, 5338-43	7.7	46
242	Stretchable all-solid-state supercapacitor with wavy shaped polyaniline/graphene electrode. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9142-9149	13	264
241	Deep ultraviolet to near-infrared emission and photoresponse in layered N-doped graphene quantum dots. <i>ACS Nano</i> , 2014 , 8, 6312-20	16.7	384
240	A deep ultraviolet to near-infrared photoresponse from glucose-derived graphene oxide. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6971-6977	7.1	34
239	Surface magnetism of Mg doped AlN: a first principle study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 435801	1.8	4
238	Preparation and characterization of few-layer MoS ₂ nanosheets and their good nonlinear optical responses in the PMMA matrix. <i>Nanoscale</i> , 2014 , 6, 9713-9	7.7	76
237	Optically and electrically tunable graphene quantum dot/polyaniline composite films. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4526-4532	7.1	51
236	Sulphur doping: a facile approach to tune the electronic structure and optical properties of graphene quantum dots. <i>Nanoscale</i> , 2014 , 6, 5323-8	7.7	221
235	Solution-processable graphene oxide as an insulator layer for metal/insulator/semiconductor silicon solar cells. <i>RSC Advances</i> , 2013 , 3, 17918	3.7	12
234	Size-Dependent Structural and Optical Characteristics of Glucose-Derived Graphene Quantum Dots. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 523-531	3.1	136
233	Exceptional tunability of band energy in a compressively strained trilayer MoS ₂ sheet. <i>ACS Nano</i> , 2013 , 7, 7126-31	16.7	429

232	Energy-level structure of nitrogen-doped graphene quantum dots. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4908	7.1	222
231	Multicolour light emission from chlorine-doped graphene quantum dots. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7308	7.1	129
230	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	7.1	68
229	Fabrication of Covalently Functionalized Graphene Oxide Incorporated Solid-State Hybrid Silica Gel Glasses and Their Improved Nonlinear Optical Response. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23108-23116	3.8	147
228	Theoretical and Experimental Investigations on the Growth of SnS van der Waals Epitaxies on Graphene Buffer Layer. <i>Crystal Growth and Design</i> , 2013 , 13, 4755-4759	3.5	14
227	Flexographic printing-assisted fabrication of ZnO nanowire devices. <i>Nanotechnology</i> , 2013 , 24, 195602	3.4	30
226	Ferroelectric Polarization Effects on the Transport Properties of Graphene/PMN-PT Field Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13747-13752	3.8	44
225	Effects of controllable biaxial strain on the Raman spectra of monolayer graphene prepared by chemical vapor deposition. <i>Applied Physics Letters</i> , 2013 , 102, 223112	3.4	43
224	Local Atomic and Electronic Structure of the Fe dopants in AlN:Fe Nanorods. <i>Journal of Physics: Conference Series</i> , 2013 , 430, 012112	0.3	
223	Bottom-up synthesis of large-scale graphene oxide nanosheets. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5676		193
222	Nonlithographic Fabrication of Crystalline Silicon Nanodots on Graphene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 532-537	3.8	11
221	n- and p-Type modulation of ZnO nanomesh coated graphene field effect transistors. <i>Nanoscale</i> , 2012 , 4, 3118-22	7.7	21
220	Ferromagnetic anisotropy of carbon-doped ZnO nanoneedles fabricated by ion beam technique. <i>Applied Surface Science</i> , 2012 , 258, 5486-5489	6.7	16
219	An efficient and stable fluorescent graphene quantum dot/gar composite as a converting material in white light emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22378		150
218	Infrared photodetectors based on CVD-grown graphene and PbS quantum dots with ultrahigh responsivity. <i>Advanced Materials</i> , 2012 , 24, 5878-83	24	579
217	The application of highly doped single-layer graphene as the top electrodes of semitransparent organic solar cells. <i>ACS Nano</i> , 2012 , 6, 810-8	16.7	270
216	Microfluidic flow direction control using continuous-wave laser. <i>Sensors and Actuators A: Physical</i> , 2012 , 188, 329-334	3.9	6
215	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, 093520	2.5	67

214	Magnetic properties of Mg-doped AlN zigzag nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1988-1992	1.6	13
213	Deep ultraviolet photoluminescence of water-soluble self-passivated graphene quantum dots. <i>ACS Nano</i> , 2012 , 6, 5102-10	16.7	1323
212	Observation of white-light amplified spontaneous emission from carbon nanodots under laser excitation. <i>Optical Materials Express</i> , 2012 , 2, 490	2.6	20
211	Short circuit current improvement in planar heterojunction organic solar cells by multijunction charge transfer. <i>Applied Physics Letters</i> , 2012 , 100, 053301	3.4	13
210	Metallo-dielectric photonic crystals for surface-enhanced Raman scattering. <i>ACS Nano</i> , 2011 , 5, 3027-33	16.7	46
209	Ni induced few-layer graphene growth at low temperature by pulsed laser deposition. <i>AIP Advances</i> , 2011 , 1, 022141	1.5	55
208	Ultraviolet electroluminescence from two-dimensional ZnO nanomesh/GaN heterojunction light emitting diodes. <i>Applied Physics Letters</i> , 2011 , 98, 263101	3.4	26
207	Electroluminescence from AlN nanowires grown on p-SiC substrate. <i>Applied Physics Letters</i> , 2010 , 97, 191105	3.4	11
206	Ultraviolet electroluminescence from randomly assembled n-SnO(2) nanowires/p-GaN:Mg heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1191-4	9.5	36
205	Optical and ferromagnetic characteristics of Mn doped ZnO thin films grown by filtered cathodic vacuum arc technique. <i>Thin Solid Films</i> , 2010 , 518, 7048-7052	2.2	4
204	Magnetotransport properties of p-type carbon-doped ZnO thin films. <i>Applied Physics Letters</i> , 2009 , 95, 012505	3.4	70
203	Temperature-dependent photoluminescence and electron field emission properties of AlN nanotip arrays. <i>Applied Physics Letters</i> , 2009 , 94, 173106	3.4	28
202	Stress and its effect on optical properties of AlN nanorods. <i>Applied Physics Letters</i> , 2009 , 95, 233105	3.4	8
201	Copper defects inside AlN:Cu nanorods IXANES and LAPW study. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012136	0.3	3
200	Growth of single-crystalline SmB ₆ nanowires and their temperature-dependent electron field emission. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 135403	3	24
199	Fabrication of Large-Scale Single-Crystalline PrB ₆ Nanorods and Their Temperature-Dependent Electron Field Emission. <i>Advanced Functional Materials</i> , 2009 , 19, 742-747	15.6	47
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27	Deposition of iron containing amorphous carbon films by filtered cathodic vacuum arc technique. <i>Diamond and Related Materials</i> , 2001 , 10, 2018-2023	3.5	18
26	Field emission from polymer-converted carbon films by ultraviolet radiation. <i>Applied Physics Letters</i> , 2001 , 78, 2009-2011	3.4	9
25	Dielectric suppression and its effect on photoabsorption of nanometric semiconductors. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 2359-2362	3	42
24	Blue electroluminescence from tris-(8-hydroxyquinoline) aluminum thin film. <i>Chemical Physics Letters</i> , 2000 , 325, 420-424	2.5	39
23	Ultraviolet and visible Raman studies of nitrogenated tetrahedral amorphous carbon films. <i>Thin Solid Films</i> , 2000 , 366, 169-174	2.2	50
22	Deposition of (Ti, Al)N films by filtered cathodic vacuum arc. <i>Thin Solid Films</i> , 2000 , 379, 76-82	2.2	15
21	Time and temperature-dependent changes in the structural properties of tetrahedral amorphous carbon films. <i>Surface and Coatings Technology</i> , 2000 , 130, 248-251	4.4	21
20	On the deposition mechanism of a-C:H films by plasma enhanced chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2000 , 135, 27-33	4.4	29
19	Structural and tribological characterization of multilayer ta-C films prepared by filtered cathodic vacuum arc with substrate pulse biasing. <i>Surface and Coatings Technology</i> , 2000 , 132, 228-232	4.4	63
18	Plasma flow simulation in an off-plane double bend magnetic filter. <i>Surface and Coatings Technology</i> , 2000 , 133-134, 593-597	4.4	13
17	Effect of heavy ion implantation on the properties of tetrahedral amorphous carbon film. <i>Thin Solid Films</i> , 2000 , 377-378, 269-273	2.2	9

16	Filtered cathodic vacuum arc deposition of copper thin film. <i>Electronics Letters</i> , 2000 , 36, 1205	1.1	2
15	Electron field emission from Ti-containing tetrahedral amorphous carbon films deposited by filtered cathodic vacuum arc. <i>Journal of Applied Physics</i> , 2000 , 88, 6842-6847	2.5	21
14	Annealing effect on electron field-emission properties of diamond-like nanocomposite films. <i>Journal of Applied Physics</i> , 2000 , 88, 5087-5092	2.5	8
13	Influence of high-substrate-bias voltage on the characteristics of DLC coatings 2000 , 4227, 157		2
12	Deposition of carbon nitride films by filtered cathodic vacuum arc combined with radio frequency ion beam source. <i>Diamond and Related Materials</i> , 2000 , 9, 2010-2018	3.5	20
11	UV Raman characteristics of nanocrystalline diamond films with different grain size. <i>Diamond and Related Materials</i> , 2000 , 9, 1979-1983	3.5	155
10	Field emission from cobalt-containing amorphous carbon composite films heat-treated in an acetylene ambient. <i>Applied Physics Letters</i> , 2000 , 77, 2021-2023	3.4	16
9	Pin-on-disk characterization of amorphous carbon films prepared by filtered cathodic vacuum arc technique. <i>Diamond and Related Materials</i> , 2000 , 9, 819-824	3.5	17
8	Memory switching in amorphous silicon-rich silicon carbide. <i>Electronics Letters</i> , 1999 , 35, 1976	1.1	5
7	Stress relief of tetrahedral amorphous carbon films by post-deposition thermal annealing. <i>Surface and Coatings Technology</i> , 1999 , 120-121, 448-452	4.4	17
6	Optoelectronic properties of highly conductive microcrystalline SiC produced by laser crystallisation of amorphous SiC. <i>Journal of Non-Crystalline Solids</i> , 1996 , 198-200, 907-910	3.9	7
5	Improved thin films of pentacene via pulsed laser deposition at elevated substrate temperatures. <i>Applied Physics Letters</i> , 1996 , 69, 2231-2233	3.4	35
4	Structural and electrical transport properties of excimer (ArF)-laser-crystallized silicon carbide. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995 , 72, 323-333		15
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