

Shu Ping Lau

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ext. citations

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L-index

#	Paper	IF	Citations
357	Deep ultraviolet photoluminescence of water-soluble self-passivated graphene quantum dots. <i>ACS Nano</i> , 2012 , 6, 5102-10	16.7	1323
356	Infrared photodetectors based on CVD-grown graphene and PbS quantum dots with ultrahigh responsivity. <i>Advanced Materials</i> , 2012 , 24, 5878-83	24	579
355	Exceptional tunability of band energy in a compressively strained trilayer MoS ₂ sheet. <i>ACS Nano</i> , 2013 , 7, 7126-31	16.7	429
354	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
353	High-Electron-Mobility and Air-Stable 2D Layered PtSe FETs. <i>Advanced Materials</i> , 2017 , 29, 1604230	24	368
352	Photoluminescence study of ZnO films prepared by thermal oxidation of Zn metallic films in air. <i>Journal of Applied Physics</i> , 2003 , 94, 354-358	2.5	356
351	Extraordinarily Strong Interlayer Interaction in 2D Layered PtS ₂ . <i>Advanced Materials</i> , 2016 , 28, 2399-407	24	322
350	Graphene quantum dots from chemistry to applications. <i>Materials Today Chemistry</i> , 2018 , 10, 221-258	6.2	306
349	Stable superhydrophobic surface via carbon nanotubes coated with a ZnO thin film. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7746-8	3.4	299
348	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
347	Stretchable all-solid-state supercapacitor with wavy shaped polyaniline/graphene electrode. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9142-9149	13	264
346	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
345	Energy-level structure of nitrogen-doped graphene quantum dots. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4908	7.1	222
344	Field-effect transistors based on amorphous black phosphorus ultrathin films by pulsed laser deposition. <i>Advanced Materials</i> , 2015 , 27, 3748-54	24	222
343	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
342	Exceptional catalytic effects of black phosphorus quantum dots in shuttling-free lithium sulfur batteries. <i>Nature Communications</i> , 2018 , 9, 4164	17.4	210
341	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

340	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
339	Bottom-up synthesis of large-scale graphene oxide nanosheets. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5676		193
338	Black Phosphorus Polymer Composites for Pulsed Lasers. <i>Advanced Optical Materials</i> , 2015 , 3, 1447-14538.1		192
337	Polycrystalline ZnO thin films on Si (100) deposited by filtered cathodic vacuum arc. <i>Journal of Crystal Growth</i> , 2001 , 223, 201-205	1.6	192
336	Comprehensive study of ZnO films prepared by filtered cathodic vacuum arc at room temperature. <i>Journal of Applied Physics</i> , 2003 , 94, 1597-1604	2.5	191
335	Random laser action in ZnO nanorod arrays embedded in ZnO epilayers. <i>Applied Physics Letters</i> , 2004 , 84, 3241-3243	3.4	190
334	Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1806878	15.6	187
333	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
332	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
331	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
330	UV Raman characteristics of nanocrystalline diamond films with different grain size. <i>Diamond and Related Materials</i> , 2000 , 9, 1979-1983	3.5	155
329	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		150
328	Solution-Processed MoS ₂ /Organolead Trihalide Perovskite Photodetectors. <i>Advanced Materials</i> , 2017 , 29, 1603995	24	149
327	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
326	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
325	Highly responsive MoS ₂ photodetectors enhanced by graphene quantum dots. <i>Scientific Reports</i> , 2015 , 5, 11830	4.9	131
324	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	1.6	131
323	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

322	Multicolour light emission from chlorine-doped graphene quantum dots. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7308	7.1	129
321	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
320	Zinc oxide thin-film random lasers on silicon substrate. <i>Applied Physics Letters</i> , 2004 , 84, 3244-3246	3.4	121
319	Enhancement of near-band-edge photoluminescence from ZnO films by face-to-face annealing. <i>Journal of Crystal Growth</i> , 2003 , 259, 335-342	1.6	116
318	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
317	Tribological properties and adhesive strength of DLC coatings prepared under different substrate bias voltages. <i>Wear</i> , 2001 , 249, 433-439	3.5	114
316	Liquid-phase exfoliation of black phosphorus and its applications. <i>FlatChem</i> , 2017 , 2, 15-37	5.1	104
315	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
314	Direct growth of ZnO nanocrystals onto the surface of porous TiO ₂ nanotube arrays for highly efficient and recyclable photocatalysts. <i>Small</i> , 2009 , 5, 2260-4	11	98
313	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
312	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
311	Fabrication of n-ZnO:Al ₂ O ₃ -SiC(4H) heterojunction light-emitting diodes by filtered cathodic vacuum arc technique. <i>Applied Physics Letters</i> , 2005 , 86, 241111	3.4	92
310	Magnetic anisotropy in the ferromagnetic Cu-doped ZnO nanoneedles. <i>Applied Physics Letters</i> , 2007 , 90, 032509	3.4	87
309	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 μ m. <i>Advanced Materials</i> , 2020 , 32, e2004412 ²⁴		86
308	Hard carbon nanocomposite films with low stress. <i>Diamond and Related Materials</i> , 2001 , 10, 1082-1087	3.5	86
307	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
306	Remarkably Enhanced Hydrogen Generation of Organolead Halide Perovskites via Piezocatalysis and Photocatalysis. <i>Advanced Energy Materials</i> , 2019 , 9, 1901801	21.8	83
305	Giant Anisotropic Raman Response of Encapsulated Ultrathin Black Phosphorus by Uniaxial Strain. <i>Advanced Functional Materials</i> , 2017 , 27, 1600986	15.6	81

304	Directional edge-emitting UV random laser diodes. <i>Applied Physics Letters</i> , 2006 , 89, 221109	3.4	79
303	Bond contraction and lone pair interaction at nitride surfaces. <i>Journal of Applied Physics</i> , 2001 , 90, 2615-2617	2.5	78
302	Tunable active edge sites in PtSe ₂ films towards hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 42, 26-33	17.1	77
301	Enhancement of ultraviolet lasing from Ag-coated highly disordered ZnO films by surface-plasmon resonance. <i>Applied Physics Letters</i> , 2007 , 90, 231106	3.4	77
300	Tribological characterisation of diamond-like carbon coatings on CoCrMo alloy for orthopaedic applications. <i>Surface and Coatings Technology</i> , 2001 , 146-147, 410-416	4.4	77
299	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
298	An extended \square 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	3	73
297	Metal-containing amorphous carbon films for hydrophobic application. <i>Thin Solid Films</i> , 2001 , 398-399, 110-115	2.2	72
296	Magnetotransport properties of p-type carbon-doped ZnO thin films. <i>Applied Physics Letters</i> , 2009 , 95, 012505	3.4	70
295	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
294	Evolution of visible luminescence in ZnO by thermal oxidation of zinc films. <i>Chemical Physics Letters</i> , 2003 , 375, 113-118	2.5	69
293	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
292	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
291	Zn-interstitial-enhanced ferromagnetism in Cu-doped ZnO films. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 315, 107-110	2.8	68
290	Laser action in ZnO nanoneedles selectively grown on silicon and plastic substrates. <i>Applied Physics Letters</i> , 2005 , 87, 013104	3.4	68
289	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
288	Exciton radiative lifetime in ZnO nanorods fabricated by vapor phase transport method. <i>Applied Physics Letters</i> , 2007 , 90, 013107	3.4	65
287	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	2.5	65

286	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
285	Emerging opportunities for black phosphorus in energy applications. <i>Materials Today Energy</i> , 2019 , 12, 1-25	7	63
284	Aqueous manganese dioxide ink for paper-based capacitive energy storage devices. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6800-3	16.4	61
283	Distinctive in-Plane Cleavage Behaviors of Two-Dimensional Layered Materials. <i>ACS Nano</i> , 2016 , 10, 8980-87	16.7	60
282	Functionalized 2D nanomaterials for gene delivery applications. <i>Coordination Chemistry Reviews</i> , 2017 , 347, 77-97	23.2	58
281	X-ray generation using carbon-nanofiber-based flexible field emitters. <i>Applied Physics Letters</i> , 2006 , 88, 103105	3.4	56
280	Ni induced few-layer graphene growth at low temperature by pulsed laser deposition. <i>AIP Advances</i> , 2011 , 1, 022141	1.5	55
279	Structural and mechanical properties of nitrogen ion implanted ultra high molecular weight polyethylene. <i>Surface and Coatings Technology</i> , 2001 , 138, 33-38	4.4	55
278	Structural and optical properties of ZnO thin films produced by filtered cathodic vacuum arc. <i>Thin Solid Films</i> , 2001 , 398-399, 244-249	2.2	55
277	Optically and electrically tunable graphene quantum dot/polyaniline composite films. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4526-4532	7.1	51
276	Ultraviolet amplified spontaneous emission from zinc oxide ridge waveguides on silicon substrate. <i>Applied Physics Letters</i> , 2003 , 83, 4288-4290	3.4	50
275	Ultraviolet and visible Raman studies of nitrogenated tetrahedral amorphous carbon films. <i>Thin Solid Films</i> , 2000 , 366, 169-174	2.2	50
274	Near-field focusing properties of zone plates in visible regime--new insights. <i>Optics Express</i> , 2008 , 16, 9554-64	3.3	48
273	Field emission from zinc oxide nanoneedles on plastic substrates. <i>Nanotechnology</i> , 2005 , 16, 1300-1303	3.4	48
272	Resonant Raman scattering studies of Fano-type interference in boron doped diamond. <i>Journal of Applied Physics</i> , 2002 , 92, 7253-7256	2.5	48
271	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
270	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	47
269	Fabrication of Large-Scale Single-Crystalline PrB6 Nanorods and Their Temperature-Dependent Electron Field Emission. <i>Advanced Functional Materials</i> , 2009 , 19, 742-747	15.6	47

268	Tuning nonlinear optical absorption properties of WS ₂ nanosheets. <i>Nanoscale</i> , 2015 , 7, 17771-7	7.7	46
267	Photoresponse of polyaniline-functionalized graphene quantum dots. <i>Nanoscale</i> , 2015 , 7, 5338-43	7.7	46
266	Metallo-dielectric photonic crystals for surface-enhanced Raman scattering. <i>ACS Nano</i> , 2011 , 5, 3027-33	16.7	46
265	Dependence of electrical and optical properties of ZnO films on substrate temperature. <i>Materials Science in Semiconductor Processing</i> , 2001 , 4, 617-620	4.3	46
264	Ferroelectric-Driven Performance Enhancement of Graphene Field-Effect Transistors Based on Vertical Tunneling Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 10048-10054	24	45
263	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
262	Mechanisms for the behavior of carbon films during annealing. <i>Physical Review B</i> , 2004 , 70,	3.3	44
261	Observations of nitrogen-related photoluminescence bands from nitrogen-doped ZnO films. <i>Journal of Crystal Growth</i> , 2003 , 252, 265-269	1.6	44
260	Microstructure and mechanical properties of nanocomposite amorphous carbon films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002 , 20, 1390-1394	2.9	44
259	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
258	Ultraviolet coherent random lasing in randomly assembled SnO ₂ nanowires. <i>Applied Physics Letters</i> , 2009 , 94, 241121	3.4	43
257	Reliable and flexible carbon-nanofiber-based all-plastic field emission devices. <i>Applied Physics Letters</i> , 2007 , 90, 143103	3.4	43
256	Nanotribological and nanomechanical properties of 580 nm tetrahedral amorphous carbon films on silicon. <i>Diamond and Related Materials</i> , 2005 , 14, 1535-1542	3.5	43
255	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	4.4	43
254	Carbon nanotube films prepared by thermal chemical vapor deposition at low temperature for field emission applications. <i>Applied Physics Letters</i> , 2001 , 79, 1670-1672	3.4	43
253	Resonant Raman studies of tetrahedral amorphous carbon films. <i>Diamond and Related Materials</i> , 2001 , 10, 76-81	3.5	43
252	Large-scale growth of few-layer two-dimensional black phosphorus. <i>Nature Materials</i> , 2021 , 20, 1203-1209	16.9	43
251	Potassium doping: Tuning the optical properties of graphene quantum dots. <i>AIP Advances</i> , 2016 , 6, 075116	11.6	43

250	Stable ferromagnetism in p-type carbon-doped ZnO nanoneedles. <i>Applied Physics Letters</i> , 2009 , 95, 1331-1334	3.4	42
249	Dielectric suppression and its effect on photoabsorption of nanometric semiconductors. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 2359-2362	3	42
248	Low-loss and directional output ZnO thin-film ridge waveguide random lasers with MgO capped layer. <i>Applied Physics Letters</i> , 2005 , 86, 031112	3-4	41
247	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	2.2	41
246	Flexible ultraviolet random lasers based on nanoparticles. <i>Small</i> , 2005 , 1, 956-9	11	41
245	High-temperature random lasing in ZnO nanoneedles. <i>Applied Physics Letters</i> , 2006 , 89, 011103	3-4	39
244	Simultaneous formation of visible and ultraviolet random lasings in ZnO films. <i>Applied Physics Letters</i> , 2006 , 89, 021110	3-4	39
243	Low stress thick diamond-like carbon films prepared by filtered arc deposition for tribological applications. <i>Surface and Coatings Technology</i> , 2002 , 154, 289-293	4-4	39
242	Blue electroluminescence from tris-(8-hydroxyquinoline) aluminum thin film. <i>Chemical Physics Letters</i> , 2000 , 325, 420-424	2.5	39
241	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
240	High-Temperature Lasing Characteristics of ZnO Epilayers. <i>Advanced Materials</i> , 2006 , 18, 771-774	24	37
239	Thermally induced sp ² clustering in tetrahedral amorphous carbon (ta-C) films. <i>Journal of Applied Physics</i> , 2004 , 96, 6286-6297	2.5	37
238	Ultraviolet lasing of ZnO whiskers prepared by catalyst-free thermal evaporation. <i>Chemical Physics Letters</i> , 2003 , 377, 329-332	2.5	37
237	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
236	Strain dependence of lasing mechanisms in ZnO epilayers. <i>Applied Physics Letters</i> , 2005 , 86, 261111	3-4	36
235	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
234	Ferromagnetic Cu-doped AlN nanorods. <i>Nanotechnology</i> , 2007 , 18, 105601	3-4	35
233	Ultraviolet photoluminescence from ferromagnetic Fe-doped AlN nanorods. <i>Applied Physics Letters</i> , 2007 , 90, 193118	3-4	35

232	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
231	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
230	Carbon nanofibers and multiwalled carbon nanotubes from camphor and their field electron emission. <i>Current Applied Physics</i> , 2009 , 9, 144-150	2.6	34
229	Structural and electrical properties of copper thin films prepared by filtered cathodic vacuum arc technique. <i>Surface and Coatings Technology</i> , 2001 , 138, 250-255	4.4	34
228	Design and fabrication of ZnO light-emitting devices using filtered cathodic vacuum arc technique. <i>Journal of Crystal Growth</i> , 2006 , 287, 204-212	1.6	33
227	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
226	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
225	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
224	Surface energy of amorphous carbon films containing iron. <i>Journal of Applied Physics</i> , 2001 , 89, 7814-7819	1.5	31
223	Flexographic printing-assisted fabrication of ZnO nanowire devices. <i>Nanotechnology</i> , 2013 , 24, 195602	3.4	30
222	Carbon nanotubes synthesized by biased thermal chemical vapor deposition as an electron source in an x-ray tube. <i>Applied Physics Letters</i> , 2005 , 86, 123115	3.4	30
221	Structural and mechanical properties of Ti-containing diamond-like carbon films deposited by filtered cathodic vacuum arc. <i>Thin Solid Films</i> , 2002 , 408, 183-187	2.2	30
220	In situ observation of the thermal stability of black phosphorus. <i>2D Materials</i> , 2017 , 4, 025001	5.9	29
219	Hydroelectric generator from transparent flexible zinc oxide nanofilms. <i>Nano Energy</i> , 2017 , 32, 125-129	17.1	29
218	Surface energy of metal containing amorphous carbon films deposited by filtered cathodic vacuum arc. <i>Diamond and Related Materials</i> , 2004 , 13, 459-464	3.5	29
217	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	2.9	29
216	Preferential orientation of titanium carbide films deposited by a filtered cathodic vacuum arc technique. <i>Surface and Coatings Technology</i> , 2001 , 138, 301-306	4.4	29
215	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

214	Mechanical and tribological characterization of diamond-like carbon coatings on orthopedic materials. <i>Diamond and Related Materials</i> , 2001 , 10, 1043-1048	3.5	29
213	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
212	Polymeric Carbon Nitride Nanosheets/Graphene Hybrid Phototransistors with High Responsivity. <i>Advanced Optical Materials</i> , 2016 , 4, 555-561	8.1	28
211	Temperature-dependent photoluminescence and electron field emission properties of AlN nanotip arrays. <i>Applied Physics Letters</i> , 2009 , 94, 173106	3.4	28
210	Optical properties of titania films prepared by off-plane filtered cathodic vacuum arc. <i>Journal of Crystal Growth</i> , 2004 , 268, 543-546	1.6	28
209	Recent progress in group III-nitride nanostructures: From materials to applications. <i>Materials Science and Engineering Reports</i> , 2020 , 142, 100578	30.9	28
208	Functionalization of graphene quantum dots by fluorine: Preparation, properties, application, and their mechanisms. <i>Applied Physics Letters</i> , 2017 , 110, 221901	3.4	27
207	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
206	Ferromagnetic Cu doped ZnO as an electron injector in heterojunction light emitting diodes. <i>Journal of Applied Physics</i> , 2008 , 104, 103104	2.5	27
205	Room-temperature growth of carbon nanofibers on plastic substrates. <i>Surface Science</i> , 2006 , 600, 3663-3667	3.6	27
204	Exciton radiative lifetime in ZnO quantum dots embedded in SiO _x matrix. <i>Applied Physics Letters</i> , 2006 , 88, 221903	3.4	27
203	Lasing in electrodeposited ZnO inverse opal. <i>Applied Physics Letters</i> , 2007 , 91, 161116	3.4	27
202	A comparative study between pure and Al-containing amorphous carbon films prepared by FCVA technique together with high substrate pulse biasing. <i>Diamond and Related Materials</i> , 2003 , 12, 2032-2036	3.5	27
201	Study of surface energy of tetrahedral amorphous carbon films modified in various gas plasma. <i>Diamond and Related Materials</i> , 2003 , 12, 2072-2076	3.5	27
200	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	4.4	27
199	Raman spectroscopy of carbon nitride films deposited using the filtered cathodic vacuum-arc technique combined with a radio-frequency nitrogen-ion beam. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 73, 341-345	2.6	27
198	Influence of substrate bias on the structure and properties of (Ti, Al)N films deposited by filtered cathodic vacuum arc. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 736-742	2.9	27
197	Magnetotransport Properties of Layered Topological Material ZrTe Thin Film. <i>ACS Nano</i> , 2019 , 13, 6008-6016	6.1	26

196	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
195	Ultraviolet electroluminescence from two-dimensional ZnO nanomesh/GaN heterojunction light emitting diodes. <i>Applied Physics Letters</i> , 2011 , 98, 263101	3.4	26
194	Structural properties and nanoindentation of AlN films by a filtered cathodic vacuum arc at low temperature. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 1472-1477	3	26
193	Inkjet printed pseudocapacitive electrodes on laser-induced graphene for electrochemical energy storage. <i>Materials Today Energy</i> , 2019 , 12, 155-160	7	25
192	High-Performance Deep Ultraviolet Photodetector Based on NiO/EGaO Heterojunction. <i>Nanoscale Research Letters</i> , 2020 , 15, 47	5	25
191	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
190	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	2.2	25
189	Effects of N ion energy on titanium nitride films deposited by ion assisted filtered cathodic vacuum arc. <i>Chemical Physics Letters</i> , 2003 , 374, 264-270	2.5	25
188	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
187	Local measurement of secondary electron emission from ZnO-coated carbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 1564-7	3.4	24
186	Optical properties of aluminium oxide thin films prepared at room temperature by off-plane filtered cathodic vacuum arc system. <i>Thin Solid Films</i> , 2004 , 447-448, 14-19	2.2	24
185	Room temperature deposition of p-type arsenic doped ZnO polycrystalline films by laser-assist filtered cathodic vacuum arc technique. <i>Journal of Applied Physics</i> , 2007 , 101, 094905	2.5	23
184	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
183	Intrinsic Conductance of Domain Walls in BiFeO ₃ . <i>Advanced Materials</i> , 2019 , 31, e1902099	24	22
182	Influence of deposition temperature on the structure and internal stress of TiN films deposited by filtered cathodic vacuum arc. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002 , 20, 1270-1274	2.9	22
181	Synthesis of Superhard and Elastic Carbon Nitride Films by Filtered Cathodic Vacuum arc Combined with Radio Frequency Ion Beam Source. <i>Journal of Materials Research</i> , 2002 , 17, 521-524	2.5	22
180	Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. <i>ACS Nano</i> , 2020 , 14, 10018-10026	16.7	22
179	n- and p-Type modulation of ZnO nanomesh coated graphene field effect transistors. <i>Nanoscale</i> , 2012 , 4, 3118-22	7.7	21

- 178 Field emission from a single carbon nanofiber at sub 100nm gap. *Applied Physics Letters*, **2008**, 93, 023133.4 21
- 177 Synthesis, morphology and random laser action of ZnO nanostructures. *Surface Science*, **2007**, 601, 2660-2663 21
- 176 Time and temperature-dependent changes in the structural properties of tetrahedral amorphous carbon films. *Surface and Coatings Technology*, **2000**, 130, 248-251 4.4 21
- 175 Electron field emission from Ti-containing tetrahedral amorphous carbon films deposited by filtered cathodic vacuum arc. *Journal of Applied Physics*, **2000**, 88, 6842-6847 2.5 21
- 174 High performance ultraviolet photodetectors based on ZnO nanoflakes/PVK heterojunction. *Applied Physics Letters*, **2016**, 109, 073103 3.4 21
- 173 Observation of white-light amplified spontaneous emission from carbon nanodots under laser excitation. *Optical Materials Express*, **2012**, 2, 490 2.6 20
- 172 Thickness-dependent optical properties of ZnO thin films. *Journal of Materials Science: Materials in Electronics*, **2007**, 18, 343-346 2.1 20
- 171 Structural and magnetic properties of iron-nitride thin films deposited using a filtered cathodic vacuum arc. *Thin Solid Films*, **2005**, 478, 61-66 2.2 20
- 170 Deposition of carbon nitride films by filtered cathodic vacuum arc combined with radio frequency ion beam source. *Diamond and Related Materials*, **2000**, 9, 2010-2018 3.5 20
- 169 Influence of nitrogen ion energy on the Raman spectroscopy of carbon nitride films. *Diamond and Related Materials*, **2001**, 10, 2137-2144 3.5 20
- 168 MnSe₂ nanocubes as an anode material for sodium-ion batteries. *Materials Today Energy*, **2018**, 10, 62-67 20
- 167 Efficient hole transfer from monolayer WS₂ to ultrathin amorphous black phosphorus. *Nanoscale Horizons*, **2019**, 4, 236-242 10.8 19
- 166 Layer-Dependent Nonlinear Optical Properties and Stability of Non-Centrosymmetric Modification in Few-Layer GaSe Sheets. *Angewandte Chemie*, **2015**, 127, 1201-1205 3.6 19
- 165 Magnetic and Thermal Expansion Properties of Vertically Aligned Fe Nanotubes Fabricated by Electrochemical Method. *Journal of Physical Chemistry C*, **2008**, 112, 4168-4171 3.8 19
- 164 Wavelength-tunable and high-temperature lasing in ZnMgO nanoneedles. *Applied Physics Letters*, **2006**, 89, 081107 3.4 19
- 163 Room-Temperature Growth and Applications of Carbon Nanofibers: A Review. *IEEE Nanotechnology Magazine*, **2006**, 5, 587-594 2.6 19
- 162 Intrinsic mechanical properties of diamond-like carbon thin films deposited by filtered cathodic vacuum arc. *Journal of Applied Physics*, **2004**, 95, 3509-3515 2.5 19
- 161 Plasma immersion ion implantation of poly(tetrafluoroethylene). *Surface and Coatings Technology*, **2004**, 177-178, 483-488 4.4 19

160	Influence of substrate bias on the microstructure and internal stress in Cu films deposited by filtered cathodic vacuum arc. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 2102-2108	2.9	19
159	Improving diamond-metal adhesion with graded TiCN interlayers. <i>Journal of Applied Physics</i> , 2002 , 91, 2051-2054	2.5	19
158	Field electron emission of double walled carbon nanotube film prepared by drop casting method. <i>Solid-State Electronics</i> , 2007 , 51, 788-792	1.7	18
157	ZnO thin films produced by filtered cathodic vacuum arc technique. <i>Ceramics International</i> , 2004 , 30, 1669-1674	5.1	18
156	Self-regenerative field emission source. <i>Applied Physics Letters</i> , 2005 , 87, 193102	3.4	18
155	Influence of substrate bias on the structure and mechanical properties of ta-C:W films deposited by filtered cathodic vacuum arc. <i>Surface and Coatings Technology</i> , 2001 , 146-147, 398-404	4.4	18
154	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
153	a-SiC:H thin film visible light-emitting diodes with highly conductive wide band gap a-SiC:H as the carrier injection layers. <i>Journal of Non-Crystalline Solids</i> , 1993 , 164-166, 813-816	3.9	18
152	Structural and tribological properties of hard carbon film synthesized by heat-treatment of a polymer on graphite substrate. <i>Thin Solid Films</i> , 2001 , 389, 161-166	2.2	17
151	Influence of deposition pressure on the composition and structure of carbon nitride films deposited by direct current plasma assisted pulsed laser ablation. <i>Applied Surface Science</i> , 2001 , 182, 32-39	6.7	17
150	Intense and stable blue-light emission of Pb(ZrxTi1-x)O3. <i>Applied Physics Letters</i> , 2001 , 79, 1082-1084	3.4	17
149	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
148	Direct interband transitions in tris-(8-hydroxyquinoline) aluminum thin films. <i>Journal of Applied Physics</i> , 2001 , 89, 1082-1086	2.5	17
147	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
146	Amorphous two-dimensional black phosphorus with exceptional photocarrier transport properties. <i>2D Materials</i> , 2017 , 4, 025063	5.9	16
145	In Situ Scanning Transmission Electron Microscopy Observations of Fracture at the Atomic Scale. <i>Physical Review Letters</i> , 2020 , 125, 246102	7.4	16
144	Ferromagnetic anisotropy of carbon-doped ZnO nanoneedles fabricated by ion beam technique. <i>Applied Surface Science</i> , 2012 , 258, 5486-5489	6.7	16
143	Carbon arc plasma transport through different off-plane double bend filters. <i>Surface and Coatings Technology</i> , 2002 , 150, 50-56	4.4	16

142	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
141	Infrared Nanoimaging of Surface Plasmons in Type-II Dirac Semimetal PtTe Nanoribbons. <i>ACS Nano</i> , 2020 , 14, 6276-6284	16.7	15
140	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
139	Edge-Emitting Vertically Aligned ZnO Nanorods Random Laser on Plastic Substrate. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1792-1794	2.2	15
138	Structural and optical properties of wurtzite InN grown on Si(111). <i>Thin Solid Films</i> , 2007 , 515, 4619-4623	2.2	15
137	Optical properties of filtered cathodic vacuum arc-deposited zirconium oxide thin films. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 7707-7715	1.8	15
136	Self-organized carbon nanotubes grown at the grain boundary of iron-nitride. <i>Carbon</i> , 2005 , 43, 654-657	10.4	15
135	Field emission properties and surface structure of nickel containing amorphous carbon. <i>Applied Surface Science</i> , 2001 , 180, 185-190	6.7	15
134	Deposition of (Ti, Al)N films by filtered cathodic vacuum arc. <i>Thin Solid Films</i> , 2000 , 379, 76-82	2.2	15
133	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
132	Solution processable high-performance infrared organic photodetector by iodine doping. <i>RSC Advances</i> , 2016 , 6, 45166-45171	3.7	15
131	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
130	Room-temperature ferromagnetism of Cu-doped ZnO films deposited by helicon magnetron sputtering. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 1243-1247	1.3	14
129	Surface plasmonic lasing via the amplification of coupled surface plasmon waves inside dielectric-metal-dielectric waveguides. <i>Optics Express</i> , 2008 , 16, 16113-23	3.3	14
128	The synthesis of carbon nanotubes and zirconium carbide composite films on a glass substrate. <i>Nanotechnology</i> , 2004 , 15, 663-666	3.4	14
127	Field emission from metal-containing amorphous carbon composite films. <i>Diamond and Related Materials</i> , 2001 , 10, 1727-1731	3.5	14
126	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
125	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

124	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
123	The formation characteristics of closed-loop random cavities inside highly disordered ZnO polycrystalline thin films. <i>Applied Physics Letters</i> , 2006 , 88, 121126	3.4	13
122	Catalytic chemical vapor deposition of vertically aligned carbon nanotubes on iron nanoislands formed from Fe ⁺ -implanted SiO ₂ films. <i>Carbon</i> , 2004 , 42, 3030-3033	10.4	13
121	Influence of thermal annealing on optical properties and structure of aluminium oxide thin films by filtered cathodic vacuum arc. <i>Optical Materials</i> , 2004 , 27, 465-469	3.3	13
120	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
119	Liquid-phase exfoliation of violet phosphorus for electronic applications. <i>SmartMat</i> , 2021 , 2, 226-233	22.8	13
118	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
117	Ultraviolet Laser Action in Ferromagnetic Zn _{1-x} Fe _x O Nanoneedles. <i>Nanoscale Research Letters</i> , 2009 , 5, 247-51	5	12
116	Formation conditions of random laser cavities in annealed ZnO epilayers. <i>IEEE Journal of Quantum Electronics</i> , 2005 , 41, 970-973	2	12
115	Exciton related stimulated emission in ZnO polycrystalline thin film deposited by filtered cathodic vacuum arc technique. <i>Applied Physics Letters</i> , 2006 , 88, 191112	3.4	12
114	Optical and electrical properties of amorphous carbon films deposited using filtered cathodic vacuum arc with pulse biasing. <i>Thin Solid Films</i> , 2004 , 447-448, 148-152	2.2	12
113	The structure and annealing properties of multilayer carbon films. <i>Surface and Coatings Technology</i> , 2005 , 198, 217-222	4.4	12
112	Tunable Schottky barriers in ultrathin black phosphorus field effect transistors via polymer capping. <i>2D Materials</i> , 2019 , 6, 024001	5.9	12
111	Recent Advances in Graphene Homogeneous p-n Junction for Optoelectronics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900007	6.8	11
110	InS Quantum Dots: Preparation, Properties and Optoelectronic Application. <i>Nanoscale Research Letters</i> , 2019 , 14, 161	5	11
109	Nonlithographic Fabrication of Crystalline Silicon Nanodots on Graphene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 532-537	3.8	11
108	Electroluminescence from AlN nanowires grown on p-SiC substrate. <i>Applied Physics Letters</i> , 2010 , 97, 191105	3.4	11
107	Low-temperature fabrication and random laser action of doped zinc oxide nanoneedles. <i>Surface Science</i> , 2007 , 601, 4459-4464	1.8	11

106	The reversible wettability of Ti containing amorphous carbon films by UV irradiation. <i>Surface and Coatings Technology</i> , 2005 , 198, 184-188	4.4	11
105	Filtered cathodic vacuum arc deposition of thin film copper. <i>Thin Solid Films</i> , 2001 , 398-399, 539-543	2.2	11
104	Field emission from tetrahedral amorphous carbon films with various surface morphologies. <i>Diamond and Related Materials</i> , 2001 , 10, 1515-1522	3.5	11
103	Thickness-dependent magnetotransport properties in 1T VSe single crystals prepared by chemical vapor deposition. <i>Nanotechnology</i> , 2020 , 31, 145712	3.4	11
102	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
101	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
100	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
99	Black Phosphorus Quantum Dots Used for Boosting Light Harvesting in Organic Photovoltaics. <i>Angewandte Chemie</i> , 2017 , 129, 13905-13909	3.6	10
98	Carbon nanotubes grown on cobalt-containing amorphous carbon composite films. <i>Diamond and Related Materials</i> , 2006 , 15, 171-175	3.5	10
97	Enhanced secondary electron emission from group III nitride/ZnO coaxial nanorod heterostructures. <i>Small</i> , 2006 , 2, 736-40	11	10
96	Ultraviolet Lasing Phenomenon of Zinc Oxide Hexagonal Microtubes. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 5273-5278	1.4	10
95	Deposition of permalloy films by filtered cathodic vacuum arc. <i>Thin Solid Films</i> , 2003 , 443, 115-119	2.2	10
94	Properties of amorphous ZrOx thin films deposited by filtered cathodic vacuum arc. <i>Journal of Non-Crystalline Solids</i> , 2003 , 332, 185-189	3.9	10
93	Electrical properties of TiN films deposited by filtered cathodic vacuum arc. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 2000		10
92	Selenium quantum dots: Preparation, structure, and properties. <i>Applied Physics Letters</i> , 2017 , 110, 053104	9.4	9
91	Large-area uniform electron doping of graphene by Ag nanofilm. <i>AIP Advances</i> , 2017 , 7, 045209	1.5	9
90	Kinetically controlled redox behaviors of K0.3MnO2 electrodes for high performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10803-10812	13	9
89	Influence of Surface Roughness on the Lasing Performance of Highly Disordered ZnO Films. <i>IEEE Photonics Technology Letters</i> , 2006 , 18, 2380-2382	2.2	9

88	Nitrogen-ion-energy dependent optical and structural properties of AlN films obtained using a filtered cathodic vacuum arc. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 2543-2547	3	9
87	Rapid thermal annealing study on the metal containing amorphous carbon films. <i>Diamond and Related Materials</i> , 2003 , 12, 2093-2098	3.5	9
86	Phase transformation of diamond films during electron field emission. <i>Applied Surface Science</i> , 2001 , 173, 282-289	6.7	9
85	Substrate bias dependence of the structure and internal stress of TiN films deposited by the filtered cathodic vacuum arc. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2002 , 20, 1327-1331	2.9	9
84	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
83	Oriented carbon microfibers grown by catalytic decomposition of acetylene and their field emission properties. <i>Diamond and Related Materials</i> , 2001 , 10, 878-882	3.5	9
82	Field emission from polymer-converted carbon films by ultraviolet radiation. <i>Applied Physics Letters</i> , 2001 , 78, 2009-2011	3.4	9
81	Solution processable organic/inorganic hybrid ultraviolet photovoltaic detector. <i>AIP Advances</i> , 2016 , 6, 055318	1.5	9
80	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
79	Stress and its effect on optical properties of AlN nanorods. <i>Applied Physics Letters</i> , 2009 , 95, 233105	3.4	8
78	Wide tunable ultraviolet random lasing action from ZnMgo thin films. <i>Journal of Crystal Growth</i> , 2009 , 312, 16-18	1.6	8
77	Synthesis and random laser application of ZnO nano-walls: a review. <i>International Journal of Nanotechnology</i> , 2009 , 6, 723	1.5	8
76	Field electron emission of multiwalled carbon nanotubes and carbon nanofibers grown from Camphor. <i>Solid-State Electronics</i> , 2008 , 52, 941-945	1.7	8
75	Aligned InN nanofingers prepared by the ion-beam assisted filtered cathodic vacuum arc technique. <i>Nanotechnology</i> , 2005 , 16, 3069-3073	3.4	8
74	Space-charge-limited bipolar flow in a nano-gap. <i>Applied Physics Letters</i> , 2005 , 87, 193112	3.4	8
73	High deposition rate of aluminum oxide film by off-plane double bend filtered cathodic vacuum arc technique. <i>Thin Solid Films</i> , 2001 , 386, 1-5	2.2	8
72	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
71	Anomalous fracture in two-dimensional rhenium disulfide. <i>Science Advances</i> , 2020 , 6,	14.3	8

70	Polarization characteristics of ZnO rib waveguide random lasers. <i>Applied Physics Letters</i> , 2006 , 88, 091116-4	5.4	7
69	Theoretical investigation of excitonic gain in ZnO--Mg/sub x/Zn/sub 1-x/O strained quantum wells. <i>IEEE Journal of Quantum Electronics</i> , 2006 , 42, 455-463	2	7
68	Design and fabrication of zinc oxide thin-film ridge waveguides on silicon substrate with ultraviolet amplified spontaneous emission. <i>IEEE Journal of Quantum Electronics</i> , 2004 , 40, 406-412	2	7
67	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
66	Unlocking surface octahedral tilt in two-dimensional Ruddlesden-Popper perovskites.. <i>Nature Communications</i> , 2022 , 13, 138	17.4	7
65	Atomically Resolved Electrically Active Intragrain Interfaces in Perovskite Semiconductors.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	7
64	Facile synthesis of AgBiS nanocrystals for high responsivity infrared detectors.. <i>RSC Advances</i> , 2018 , 8, 39203-39207	3.7	7
63	Ferroelectricity and Rashba effect in 2D organic/inorganic hybrid perovskites. <i>Trends in Chemistry</i> , 2021 , 3, 716-732	14.8	7
62	Ferroelectricity in untwisted heterobilayers of transition metal dichalcogenides. <i>Science</i> , 2022 , 376, 973-978	37.8	7
61	Kinetically controlled synthesis of large-scale morphology-tailored silver nanostructures at low temperature. <i>Nanoscale</i> , 2015 , 7, 13420-6	7.7	6
60	Synthesis, properties, and applications of 2D amorphous inorganic materials. <i>Journal of Applied Physics</i> , 2020 , 127, 220901	2.5	6
59	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
58	Microfluidic flow direction control using continuous-wave laser. <i>Sensors and Actuators A: Physical</i> , 2012 , 188, 329-334	3.9	6
57	Microstructure effect on field emission from tetrahedral amorphous carbon films annealed in nitrogen and acetylene ambient. <i>Diamond and Related Materials</i> , 2004 , 13, 133-138	3.5	6
56	Infrared photodetector based on GeTe nanofilms with high performance. <i>Optics Letters</i> , 2020 , 45, 1108-1111	11.1	6
55	Enhancement of photo-electrochemical reactions in MAPbI3/Au. <i>Materials Today Energy</i> , 2018 , 9, 303-310	3	6
54	Tantalum disulfide quantum dots: preparation, structure, and properties. <i>Nanoscale Research Letters</i> , 2020 , 15, 20	5	5
53	SnS 2 quantum dots: Facile synthesis, properties, and applications in ultraviolet photodetector. <i>Chinese Physics B</i> , 2019 , 28, 037801	1.2	5

52	Tellurium quantum dots: Preparation and optical properties. <i>Applied Physics Letters</i> , 2017 , 111, 063112	3.4	5
51	Aqueous Manganese Dioxide Ink for Paper-Based Capacitive Energy Storage Devices. <i>Angewandte Chemie</i> , 2015 , 127, 6904-6907	3.6	5
50	Multi-purpose ionization gas sensing devices using carbon nanofibers on plastic substrates. <i>Diamond and Related Materials</i> , 2008 , 17, 1959-1962	3.5	5
49	Fabrication of smooth amorphous carbon micro-cantilevers by lift-off. <i>Sensors and Actuators B: Chemical</i> , 2004 , 98, 275-281	8.5	5
48	Annealing effects on field emission properties of tetrahedral amorphous carbon films. <i>Applied Surface Science</i> , 2001 , 174, 283-288	6.7	5
47	Memory switching in amorphous silicon-rich silicon carbide. <i>Electronics Letters</i> , 1999 , 35, 1976	1.1	5
46	Infrared photovoltaic detector based on p-GeTe/n-Si heterojunction. <i>Nanoscale Research Letters</i> , 2020 , 15, 138	5	5
45	Photoresponse of wafer-scale palladium diselenide films prepared by selenization method. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 065102	3	5
44	Superior Dielectric Screening in Two-Dimensional MoS Spirals. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37941-37946	9.5	4
43	Surface magnetism of Mg doped AlN: a first principle study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 435801	1.8	4
42	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
41	Secondary electron emission properties of III-nitride/ZnO coaxial heterostructures under ion and X-ray bombardment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 254, 55-58	1.2	4
40	Field emission from nanoforest carbon nanotubes grown on cobalt-containing amorphous carbon composite films. <i>Journal of Applied Physics</i> , 2007 , 101, 033524	2.5	4
39	Micromechanical properties of carbon nitride films deposited by radio-frequency-assisted filtered cathodic vacuum arc. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 75, 375-380	2.6	4
38	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
37	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
36	Preparation and photoelectric properties of cadmium sulfide quantum dots. <i>Chinese Physics B</i> , 2019 , 28, 047803	1.2	3
35	Copper defects inside AlN:Cu nanorods IXANES and LAPW study. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012136	0.3	3

34	Synthesis, optical properties and functional applications of ZnO nano-materials: A review 2008 ,		3
33	Studies of copper vacuum arc plasma through an off-plane double-bend filtering duct. <i>Surface and Coatings Technology</i> , 2003 , 169-170, 482-486	4-4	3
32	Raman spectroscopy and x-ray diffraction studies of (Ti,Al)N films deposited by filtered cathodic vacuum arc at room temperature. <i>Journal of Applied Physics</i> , 2001 , 89, 6192-6197	2-5	3
31	Study of plasma efficiency as a function of arc current in filtered cathodic vacuum arc systems. <i>Diamond and Related Materials</i> , 2001 , 10, 947-951	3-5	3
30	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
29	Impurity-Induced Robust Trionic Effect in Layered Violet Phosphorus. <i>Advanced Optical Materials</i> , 2021 , 9, 2100294	3-1	3
28	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
27	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
26	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
25	Suppression of Random Lasing Modes in Polycrystalline ZnO Thin-Film by Using Distributed Bragg Reflector. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 549-551	2-2	2
24	Vertically self-aligned conical carbon nanofibers by pulsed discharge plasma chemical vapour deposition and its field electron emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 3096-3101	1-6	2
23	Characterization of Thick Amorphous Carbon Films Formed by Pulse Bias Filtered Cathodic Vacuum Arc. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 7854-7859	1-4	2
22	Dependences of amorphous structure on bias voltage and annealing in silicon-carbon alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 85, 20-24	3-1	2
21	Field emission from heat-treated cobalt-containing amorphous carbon composite films on glass substrate. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001 , 19, 950		2
20	Characterization of (Ti, Al)N films deposited by off-plane double bend filtered cathodic vacuum arc. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 557-562	2-9	2
19	Filtered cathodic vacuum arc deposition of copper thin film. <i>Electronics Letters</i> , 2000 , 36, 1205	1-1	2
18	Influence of high-substrate-bias voltage on the characteristics of DLC coatings 2000 , 4227, 157		2
17	Mixed dimensional 0D/3D perovskite heterostructure for efficient green light-emitting diodes. <i>Journal of Materials Chemistry C</i> ,	7-1	2

16	Random laser action in 3-D ZnO nanostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, S154-S157		1
15	Low temperature deposition of tantalum diffusion barrier by filtered cathodic vacuum arc. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 1355-1359	3	1
14	Effects of varying mechanical deformations on the relationship between mesotexture and current percolation in (Bi, Pb) ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ /Ag superconductor tapes. <i>Superconductor Science and Technology</i> , 2003 , 16, 885-892	3.1	1
13	Polycrystalline InN thin films prepared by ion-beam-assisted filtered cathodic vacuum arc technique. <i>Journal of Crystal Growth</i> , 2005 , 282, 271-278	1.6	1
12	Aqueous Manganese Dioxide Ink for High Performance Capacitive Energy Storage Devices. <i>MRS Advances</i> , 2016 , 1, 3573-3578	0.7	1
11	AgS monolayer: an ultrasoft inorganic Lieb lattice. <i>Nanoscale</i> , 2021 , 13, 14008-14015	7.7	1
10	Preparation and photoelectric properties of SnOx films with tunable optical bandgap. <i>Chemical Physics Letters</i> , 2020 , 739, 137039	2.5	0
9	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
8	(Invited) Solution Exfoliated Black Phosphorus and Its Applications. <i>ECS Transactions</i> , 2017 , 77, 27-33	1	
7	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	
6	Temperature dependent exciton radiative lifetime in ZnO nanorods. <i>International Journal of Nanotechnology</i> , 2007 , 4, 404	1.5	
5	Mechanisms for the Behaviour of Amorphous Carbon Films During Annealing. <i>Microscopy and Microanalysis</i> , 2004 , 10, 614-615	0.5	
4	Formation of carbon nanoclusters by implantation of keV carbon ions in fused silica followed by thermal annealing 2005 , 5650, 35		
3	GROWTH OF CARBON NANOTUBE BUNDLES ON MICROSCRATCHED SURFACES. <i>International Journal of Nanoscience</i> , 2005 , 04, 419-422	0.6	
2	GROWTH AND STRUCTURAL STUDY OF NANOCRYSTALLINE TITANIUM OXIDE AND ZIRCONIUM OXIDE THIN FILMS DEPOSITED AT LOW TEMPERATURES. <i>International Journal of Nanoscience</i> , 2005 , 04, 795-801	0.6	
1	Innenrücktitelbild: Constructing Interfacial Energy Transfer for Photon Up- and Down-Conversion from Lanthanides in a CoreShell Nanostructure (Angew. Chem. 40/2016). <i>Angewandte Chemie</i> , 2016 , 128, 12731-12731	3.6	