

Xu Jianbin

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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.

457
papers

19,987
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74
h-index

123
g-index

515
ext. papers

23,318
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
457	High-responsivity graphene/silicon-heterostructure waveguide photodetectors. <i>Nature Photonics</i> , 2013 , 7, 888-891	33.9	584
456	Hybrid halide perovskite solar cell precursors: colloidal chemistry and coordination engineering behind device processing for high efficiency. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4460-8	16.4	481
455	Multifunctional biohybrid magnetite microrobots for imaging-guided therapy. <i>Science Robotics</i> , 2017 , 2,	18.6	393
454	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. <i>Applied Physics Reviews</i> , 2017 , 4, 021306	17.3	368
453	Ice-Templated Assembly Strategy to Construct 3D Boron Nitride Nanosheet Networks in Polymer Composites for Thermal Conductivity Improvement. <i>Small</i> , 2015 , 11, 6205-13	11	340
452	Near-Infrared Photodetector Based on MoS ₂ /Black Phosphorus Heterojunction. <i>ACS Photonics</i> , 2016 , 3, 692-699	6.3	330
451	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. <i>ACS Nano</i> , 2017 , 11, 4507-4513	16.7	315
450	Soluble and stable N-heteropentacenes with high field-effect mobility. <i>Advanced Materials</i> , 2011 , 23, 1535-9	24	301
449	A Combination of Boron Nitride Nanotubes and Cellulose Nanofibers for the Preparation of a Nanocomposite with High Thermal Conductivity. <i>ACS Nano</i> , 2017 , 11, 5167-5178	16.7	297
448	Polymer Composite with Improved Thermal Conductivity by Constructing a Hierarchically Ordered Three-Dimensional Interconnected Network of BN. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13544-13553	9.5	278
447	Conducting polymer nanostructures: template synthesis and applications in energy storage. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 2636-57	6.3	271
446	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. <i>Nature Communications</i> , 2014 , 5, 5162	17.4	270
445	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. <i>Science Advances</i> , 2017 , 3, e1700589	14.3	269
444	The physics and chemistry of graphene-on-surfaces. <i>Chemical Society Reviews</i> , 2017 , 46, 4417-4449	58.5	247
443	Electronic Properties of MoS ₂ -WS ₂ Heterostructures Synthesized with Two-Step Lateral Epitaxial Strategy. <i>ACS Nano</i> , 2015 , 9, 9868-76	16.7	225
442	High-performance graphene-based hole conductor-free perovskite solar cells: Schottky junction enhanced hole extraction and electron blocking. <i>Small</i> , 2015 , 11, 2269-74	11	206
441	Artificial nacre-like papers based on noncovalent functionalized boron nitride nanosheets with excellent mechanical and thermally conductive properties. <i>Nanoscale</i> , 2015 , 7, 6774-81	7.7	205

440	Highly Sensitive Glucose Biosensors Based on Organic Electrochemical Transistors Using Platinum Gate Electrodes Modified with Enzyme and Nanomaterials. <i>Advanced Functional Materials</i> , 2011 , 21, 2264-2272	15.6	203
439	Construction of 3D Skeleton for Polymer Composites Achieving a High Thermal Conductivity. <i>Small</i> , 2018 , 14, e1704044	11	196
438	The position of nitrogen in N-heteropentacenes matters. <i>Advanced Materials</i> , 2011 , 23, 5514-8	24	192
437	Application of admittance spectroscopy to evaluate carrier mobility in organic charge transport materials. <i>Journal of Applied Physics</i> , 2006 , 99, 013706	2.5	191
436	Significant Enhancement of Thermal Conductivity in Bioinspired Freestanding Boron Nitride Papers Filled with Graphene Oxide. <i>Chemistry of Materials</i> , 2016 , 28, 1049-1057	9.6	187
435	Highly polarization sensitive infrared photodetector based on black phosphorus-on-WSe ₂ photogate vertical heterostructure. <i>Nano Energy</i> , 2017 , 37, 53-60	17.1	185
434	Probing Carrier Transport and Structure-Property Relationship of Highly Ordered Organic Semiconductors at the Two-Dimensional Limit. <i>Physical Review Letters</i> , 2016 , 116, 016602	7.4	180
433	Analyzing the Carrier Mobility in Transition-Metal Dichalcogenide MoS ₂ Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2017 , 27, 1604093	15.6	178
432	Signature of Intrinsic High-Temperature Ferromagnetism in Cobalt-Doped Zinc Oxide Nanocrystals. <i>Advanced Materials</i> , 2006 , 18, 2476-2480	24	163
431	Silver Nanoparticle-Deposited Boron Nitride Nanosheets as Fillers for Polymeric Composites with High Thermal Conductivity. <i>Scientific Reports</i> , 2016 , 6, 19394	4.9	156
430	Lateral Built-In Potential of Monolayer MoS ₂ -WS ₂ In-Plane Heterostructures by a Shortcut Growth Strategy. <i>Advanced Materials</i> , 2015 , 27, 6431-7	24	155
429	Synergistic Effects of Plasmonics and Electron Trapping in Graphene Short-Wave Infrared Photodetectors with Ultrahigh Responsivity. <i>ACS Nano</i> , 2017 , 11, 430-437	16.7	153
428	Electron Mobility Exceeding 10 cm ² V ⁻¹ s ⁻¹ and Band-Like Charge Transport in Solution-Processed n-Channel Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2016 , 28, 5276-83	24	149
427	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	144
426	Evidence of intrinsic ferromagnetism in individual dilute magnetic semiconducting nanostructures. <i>Nature Nanotechnology</i> , 2009 , 4, 523-7	28.7	131
425	Vertically Aligned and Interconnected SiC Nanowire Networks Leading to Significantly Enhanced Thermal Conductivity of Polymer Composites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9669-9678	9.5	119
424	The role of solution-processed high- κ gate dielectrics in electrical performance of oxide thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5389	7.1	119
423	Highly Confined and Tunable Hyperbolic Phonon Polaritons in Van Der Waals Semiconducting Transition Metal Oxides. <i>Advanced Materials</i> , 2018 , 30, e1705318	24	118

4 ²²	Polymer composite with enhanced thermal conductivity and mechanical strength through orientation manipulating of BN. <i>Composites Science and Technology</i> , 2018 , 160, 127-137	8.6	118
4 ²¹	Facile and environmentally friendly solution-processed aluminum oxide dielectric for low-temperature, high-performance oxide thin-film transistors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5803-10	9.5	118
4 ²⁰	Heat transfer between two metallic surfaces at small distances. <i>Journal of Applied Physics</i> , 1994 , 76, 7209-7216	11.6	116
4 ¹⁹	Highly Thermally Conductive Composite Papers Prepared Based on the Thought of Bioinspired Engineering. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15645-53	9.5	115
4 ¹⁸	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. <i>Science Advances</i> , 2017 , 3, e1701186	14.3	115
4 ¹⁷	Recent Advances of Solution-Processed Metal Oxide Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25878-25901	9.5	114
4 ¹⁶	1T' Transition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8696-8704	16.4	114
4 ¹⁵	Learning from Natural Nacre: Constructing Layered Polymer Composites with High Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33001-33010	9.5	113
4 ¹⁴	The effect of interfacial state on the thermal conductivity of functionalized Al ₂ O ₃ filled glass fibers reinforced polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 69, 49-55	8.4	112
4 ¹³	High Responsivity, Broadband, and Fast Graphene/Silicon Photodetector in Photoconductor Mode. <i>Advanced Optical Materials</i> , 2015 , 3, 1207-1214	8.1	111
4 ¹²	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. <i>Advanced Materials</i> , 2016 , 28, 5200-5	24	109
4 ¹¹	Interfacial Engineering of Silicon Carbide Nanowire/Cellulose Microcrystal Paper toward High Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31248-31255	9.5	106
4 ¹⁰	High-Quality Large-Area Graphene from Dehydrogenated Polycyclic Aromatic Hydrocarbons. <i>Chemistry of Materials</i> , 2012 , 24, 3906-3915	9.6	105
4 ⁰⁹	Centimeter-Scale CVD Growth of Highly Crystalline Single-Layer MoS ₂ Film with Spatial Homogeneity and the Visualization of Grain Boundaries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12073-12081	9.5	99
4 ⁰⁸	Facile Preparation of Superelastic and Ultralow Dielectric Boron Nitride Nanosheet Aerogels via Freeze-Casting Process. <i>Chemistry of Materials</i> , 2015 , 27, 5849-5855	9.6	98
4 ⁰⁷	Through-plane assembly of carbon fibers into 3D skeleton achieving enhanced thermal conductivity of a thermal interface material. <i>Chemical Engineering Journal</i> , 2020 , 380, 122550	14.7	94
4 ⁰⁶	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. <i>ACS Nano</i> , 2019 , 13, 1547-1554	16.7	93
4 ⁰⁵	High-performance graphene devices on SiO ₂ /Si substrate modified by highly ordered self-assembled monolayers. <i>Advanced Materials</i> , 2011 , 23, 2464-8	24	93

404	Band gap opening of bilayer graphene by F4-TCNQ molecular doping and externally applied electric field. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 11377-81	3.4	93
403	Structural evidence of secondary phase segregation from the Raman vibrational modes in Zn _{1-x} CoxO (0. <i>Applied Physics Letters</i> , 2007 , 91, 031908	3.4	93
402	Nonstoichiometric acid-base reaction as reliable synthetic route to highly stable CHNHPbI perovskite film. <i>Nature Communications</i> , 2016 , 7, 13503	17.4	87
401	Self-Assembled Injectable Nanocomposite Hydrogels Stabilized by Bisphosphonate-Magnesium (Mg ²⁺) Coordination Regulates the Differentiation of Encapsulated Stem Cells via Dual Crosslinking. <i>Advanced Functional Materials</i> , 2017 , 27, 1701642	15.6	84
400	Robust Biopolymeric Supramolecular Host-Guest Macromer Hydrogels Reinforced by in Situ Formed Multivalent Nanoclusters for Cartilage Regeneration. <i>Macromolecules</i> , 2016 , 49, 866-875	5.5	82
399	Aggregation-based growth and magnetic properties of inhomogeneous Cu-doped ZnO nanocrystals. <i>Applied Physics Letters</i> , 2007 , 90, 212502	3.4	82
398	Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer. <i>Joule</i> , 2018 , 2, 2706-2721	27.8	82
397	Quantitative Analysis of Graphene Doping by Organic Molecular Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7596-7602	3.8	81
396	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. <i>Nano Letters</i> , 2016 , 16, 3754-9	11.5	81
395	Fused-Ring Electron Acceptor ITIC-Th: A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , 2018 , 8, 1703399	21.8	80
394	Raman spectroscopic study of oxidation and phase transition in W18O49 nanowires. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 176-180	2.3	80
393	Boron nitride@graphene oxide hybrids for epoxy composites with enhanced thermal conductivity. <i>RSC Advances</i> , 2016 , 6, 35847-35854	3.7	80
392	Highly Sensitive and Broadband Organic Photodetectors with Fast Speed Gain and Large Linear Dynamic Range at Low Forward Bias. <i>Small</i> , 2017 , 13, 1603260	11	79
391	High-responsivity graphene-on-silicon slot waveguide photodetectors. <i>Nanoscale</i> , 2016 , 8, 13206-11	7.7	79
390	Structural, optical and magnetic properties of Co-doped ZnO nanorods with hidden secondary phases. <i>Nanotechnology</i> , 2008 , 19, 455702	3.4	79
389	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. <i>Nature Communications</i> , 2018 , 9, 4909	17.4	79
388	Graphene based non-volatile memory devices. <i>Advanced Materials</i> , 2014 , 26, 5496-503	24	77
387	Molybdenum disulfide-based amplified fluorescence DNA detection using hybridization chain reactions. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2395-2401	7.3	77

- 386 Self-assembled monolayers of phosphonic acids with enhanced surface energy for high-performance solution-processed N-channel organic thin-film transistors. *Angewandte Chemie - International Edition*, **2013**, 52, 6222-7 16.4 76
- 385 Self-assembled monolayers of cyclohexyl-terminated phosphonic acids as a general dielectric surface for high-performance organic thin-film transistors. *Advanced Materials*, **2014**, 26, 7190-6 24 75
- 384 Spray-assisted assembled spherical boron nitride as fillers for polymers with enhanced thermally conductivity. *Chemical Engineering Journal*, **2019**, 370, 166-175 14.7 74
- 383 Preparation and characterization of alginate-chitosan hydrogel films crosslinked using a water-soluble carbodiimide (WSC). *Journal of Membrane Science*, **2003**, 218, 131-146 9.6 74
- 382 Enhanced thermal conductivity for Ag-deposited alumina sphere/epoxy resin composites through manipulating interfacial thermal resistance. *Composites Part A: Applied Science and Manufacturing*, **2018**, 107, 561-569 8.4 73
- 381 Monolayer Field-Effect Transistors of Nonplanar Organic Semiconductors with Brickwork Arrangement. *Advanced Materials*, **2015**, 27, 3418-23 24 71
- 380 NiO mesoporous nanowalls grown on RGO coated nickel foam as high performance electrodes for supercapacitors and biosensors. *Electrochimica Acta*, **2016**, 192, 205-215 6.7 71
- 379 Self-assembled N-cadherin mimetic peptide hydrogels promote the chondrogenesis of mesenchymal stem cells through inhibition of canonical Wnt/ β -catenin signaling. *Biomaterials*, **2017**, 145, 33-43 15.6 71
- 378 Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. *ACS Nano*, **2019**, 13, 7402-7409 16.7 70
- 377 Improving thermal conductivity of polymer composites by reducing interfacial thermal resistance between boron nitride nanotubes. *Composites Science and Technology*, **2018**, 165, 322-330 8.6 69
- 376 N-heteroquinones: quadruple weak hydrogen bonds and n-channel transistors. *Chemical Communications*, **2010**, 46, 2977-9 5.8 69
- 375 Hollow SnO₂@Co₃O₄ core-shell spheres encapsulated in three-dimensional graphene foams for high performance supercapacitors and lithium-ion batteries. *Journal of Power Sources*, **2015**, 298, 83-91 8.9 68
- 374 Graphene size-dependent modulation of graphene frameworks contributing to the superior thermal conductivity of epoxy composites. *Journal of Materials Chemistry A*, **2018**, 6, 12091-12097 13 67
- 373 A Simple Method for Synthesis of High-Quality Millimeter-Scale 1T' Transition-Metal Telluride and Near-Field Nanooptical Properties. *Advanced Materials*, **2017**, 29, 1700704 24 67
- 372 High-Performance Broadband Floating-Base Bipolar Phototransistor Based on WSe₂/BP/MoS₂ Heterostructure. *ACS Photonics*, **2017**, 4, 823-829 6.3 66
- 371 Short Range Order and the Nature of Defects and Traps in Amorphous Silicon Oxynitride Governed by the Mott Rule. *Physical Review Letters*, **1998**, 81, 1054-1057 7.4 66
- 370 Textured CH₃NH₃PbI₃ thin film with enhanced stability for high performance perovskite solar cells. *Nano Energy*, **2017**, 33, 485-496 17.1 65
- 369 Performance and Stability Improvement of P3HT:PCBM-Based Solar Cells by Thermally Evaporated Chromium Oxide (CrO_x) Interfacial Layer. *ACS Applied Materials & Interfaces*, **2010**, 2, 2699-2702 9.5 65

368	In-Plane Optical Absorption and Free Carrier Absorption in Graphene-on-Silicon Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 43-48	3.8	64
367	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. <i>ACS Energy Letters</i> , 2019 , 4, 534-541	20.1	63
366	ZnO-nanorods/graphene heterostructure: a direct electron transfer glucose biosensor. <i>Scientific Reports</i> , 2016 , 6, 32327	4.9	63
365	Stable and scalable 3D-2D planar heterojunction perovskite solar cells via vapor deposition. <i>Nano Energy</i> , 2019 , 59, 619-625	17.1	62
364	Effects of Alkyl Chain Length on Crystal Growth and Oxidation Process of Two-Dimensional Tin Halide Perovskites. <i>ACS Energy Letters</i> , 2020 , 5, 1422-1429	20.1	62
363	Hybrid graphene tunneling photoconductor with interface engineering towards fast photoresponse and high responsivity. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	62
362	Preparation of Boron Nitride Nanosheet/Nanofibrillated Cellulose Nanocomposites with Ultrahigh Thermal Conductivity via Engineering Interfacial Thermal Resistance. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700563	4.6	62
361	Structure control and characterization of SrBi ₂ Ta ₂ O ₉ thin films by a modified annealing method. <i>Applied Physics Letters</i> , 1999 , 74, 1221-1223	3.4	62
360	Ultrathin efficient perovskite solar cells employing a periodic structure of a composite hole conductor for elevated plasmonic light harvesting and hole collection. <i>Nanoscale</i> , 2016 , 8, 6290-9	7.7	61
359	Large-Grain Formamidinium PbI ₃ Br _x for High-Performance Perovskite Solar Cells via Intermediate Halide Exchange. <i>Advanced Energy Materials</i> , 2017 , 7, 1601882	21.8	61
358	Induced crystallization of rubrene in thin-film transistors. <i>Advanced Materials</i> , 2010 , 22, 3242-6	24	61
357	Improving thermal conductivity through welding boron nitride nanosheets onto silver nanowires via silver nanoparticles. <i>Composites Science and Technology</i> , 2019 , 177, 118-126	8.6	59
356	Near-infrared light-triggered release of small molecules for controlled differentiation and long-term tracking of stem cells in vivo using upconversion nanoparticles. <i>Biomaterials</i> , 2016 , 110, 1-10	15.6	59
355	Flexible dielectric papers based on biodegradable cellulose nanofibers and carbon nanotubes for dielectric energy storage. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6037-6044	7.1	59
354	Crystallinity Preservation and Ion Migration Suppression through Dual Ion Exchange Strategy for Stable Mixed Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700118	21.8	58
353	Epitaxial Stitching and Stacking Growth of Atomically Thin Transition-Metal Dichalcogenides (TMDCs) Heterojunctions. <i>Advanced Functional Materials</i> , 2017 , 27, 1603884	15.6	57
352	Low-voltage organic field-effect transistors (OFETs) with solution-processed metal-oxide as gate dielectric. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4662-7	9.5	57
351	Achieving Significant Thermal Conductivity Enhancement via an Ice-Templated and Sintered BN-SiC Skeleton. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2892-2902	9.5	57

350	Degradation mechanism of organic solar cells with aluminum cathode. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3303-3310	6.4	56
349	A Meaningful Analogue of Pentacene: Charge Transport, Polymorphs, and Electronic Structures of Dihydrodiazapentacene. <i>Chemistry of Materials</i> , 2009 , 21, 1400-1405	9.6	56
348	Oxygen gettering and oxide degradation during annealing of Si/SiO ₂ /Si structures. <i>Journal of Applied Physics</i> , 1995 , 77, 175-186	2.5	56
347	Aqueous Solution-Deposited Gallium Oxide Dielectric for Low-Temperature, Low-Operating-Voltage Indium Oxide Thin-Film Transistors: A Facile Route to Green Oxide Electronics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 14720-5	9.5	55
346	Spherical core-shell Al@Al ₂ O ₃ filled epoxy resin composites as high-performance thermal interface materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 123, 260-269	8.4	54
345	Short-range order in non-stoichiometric amorphous silicon oxynitride and silicon-rich nitride. <i>Journal of Non-Crystalline Solids</i> , 2002 , 297, 96-101	3.9	54
344	In situ observation of the ferroelectric-paraelectric phase transition in a triglycine sulfate single crystal by variable-temperature electrostatic force microscopy. <i>Physical Review B</i> , 2000 , 61, 203-206	3.3	54
343	Flexible graphene electrothermal films made from electrochemically exfoliated graphite. <i>Journal of Materials Science</i> , 2016 , 51, 1043-1051	4.3	53
342	General Nondestructive Passivation by 4-Fluoroaniline for Perovskite Solar Cells with Improved Performance and Stability. <i>Small</i> , 2018 , 14, e1803350	11	52
341	Ice-Templated MXene/Ag-Epoxy Nanocomposites as High-Performance Thermal Management Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24298-24307	9.5	51
340	Interlayer Interaction Enhancement in Ruddlesden-Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. <i>ACS Energy Letters</i> , 2019 , 4, 1025-1033	20.1	50
339	Radial ZnO nanowire nucleation on amorphous carbons. <i>Applied Physics Letters</i> , 2005 , 87, 183109	3.4	50
338	Nacre-inspired polymer composites with high thermal conductivity and enhanced mechanical strength. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 121, 92-99	8.4	49
337	Imperfect oriented attachment: Direct activation of high-temperature ferromagnetism in diluted magnetic semiconductor nanocrystals. <i>Applied Physics Letters</i> , 2006 , 88, 223108	3.4	48
336	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy-Band Engineering. <i>Advanced Materials</i> , 2019 , 31, e1902543	24	46
335	Observation of a giant two-dimensional band-piezoelectric effect on biaxial-strained graphene. <i>NPG Asia Materials</i> , 2015 , 7, e154-e154	10.3	46
334	Solution-Processed Ambipolar Organic Thin-Film Transistors by Blending p- and n-Type Semiconductors: Solid Solution versus Microphase Separation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28019-26	9.5	46
333	High hole mobility of 1,2-bis[4'-(diphenylamino)biphenyl-4-yl]-1,2-diphenylethane in field effect transistor. <i>Chemical Communications</i> , 2011 , 47, 6924-6	5.8	46

332	Single crystal n-channel field effect transistors from solution-processed silylethynylated tetraazapentacene. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15201		46
331	Restoring the photovoltaic effect in graphene-based van der Waals heterojunctions towards self-powered high-detectivity photodetectors. <i>Nano Energy</i> , 2019 , 57, 214-221	17.1	46
330	2D materials-based homogeneous transistor-memory architecture for neuromorphic hardware. <i>Science</i> , 2021 , 373, 1353-1358	33.3	46
329	Fibrous Epoxy Substrate with High Thermal Conductivity and Low Dielectric Property for Flexible Electronics. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500485	6.4	45
328	Core-shell Cu@rGO hybrids filled in epoxy composites with high thermal conduction. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 257-265	7.1	45
327	Highly thermally conductive polymer nanocomposites based on boron nitride nanosheets decorated with silver nanoparticles. <i>RSC Advances</i> , 2016 , 6, 41630-41636	3.7	43
326	Three-dimensional interconnected graphene microsphere as fillers for enhancing thermal conductivity of polymer. <i>Chemical Engineering Journal</i> , 2019 , 368, 79-87	14.7	42
325	Low-temperature facile solution-processed gate dielectric for combustion derived oxide thin film transistors. <i>RSC Advances</i> , 2014 , 4, 54729-54739	3.7	42
324	Guanidinium doping enabled low-temperature fabrication of high-efficiency all-inorganic CsPbI ₂ Br perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27640-27647	13	41
323	Abnormal Synergetic Effect of Organic and Halide Ions on the Stability and Optoelectronic Properties of a Mixed Perovskite via In Situ Characterizations. <i>Advanced Materials</i> , 2018 , 30, e1801562	24	41
322	Controlling of the surface energy of the gate dielectric in organic field-effect transistors by polymer blend. <i>Applied Physics Letters</i> , 2009 , 94, 093302	3.4	40
321	Low-temperature preparation and characterization of SrBi ₂ Ta ₂ O ₉ thin films on (100)-oriented LaNiO ₃ electrodes. <i>Applied Physics Letters</i> , 2000 , 76, 1758-1760	3.4	40
320	Multifunctional Quantum Dot Nanoparticles for Effective Differentiation and Long-Term Tracking of Human Mesenchymal Stem Cells In Vitro and In Vivo. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1049-57	10.1	40
319	Controlled Electrochemical Deposition of Large-Area MoS ₂ on Graphene for High-Responsivity Photodetectors. <i>Advanced Functional Materials</i> , 2017 , 27, 1603998	15.6	39
318	Fully solution-processed metal oxide thin-film transistors via a low-temperature aqueous route. <i>Ceramics International</i> , 2017 , 43, 6130-6137	5.1	39
317	A novel h-BN/rGO hybrids for epoxy resin composites achieving enhanced high thermal conductivity and energy density. <i>RSC Advances</i> , 2017 , 7, 23355-23362	3.7	39
316	Graphene photodetector integrated on silicon nitride waveguide. <i>Journal of Applied Physics</i> , 2015 , 117, 144504	2.5	39
315	Device lifetime improvement of polymer-based bulk heterojunction solar cells by incorporating copper oxide layer at Al cathode. <i>Applied Physics Letters</i> , 2011 , 98, 183304	3.4	39

- 314 Scaling dopant states in a semiconducting nanostructure by chemically resolved electron energy-loss spectroscopy: a case study on Co-doped ZnO. *Journal of the American Chemical Society*, **2010**, 132, 6492-7 16.4 39
- 313 Study of domain stability on (Pb_{0.76}Ca_{0.24})TiO₃ thin films using piezoresponse microscopy. *Applied Physics Letters*, **2002**, 81, 715-717 3.4 39
- 312 Thickness dependence of mobility in CuPc thin film on amorphous SiO₂ substrate. *Journal Physics D: Applied Physics*, **2007**, 40, 5666-5669 3 38
- 311 GaAsSb/GaAs band alignment evaluation for long-wave photonic applications. *Journal of Crystal Growth*, **2003**, 251, 521-525 1.6 38
- 310 Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. *Nature Communications*, **2019**, 10, 2705 17.4 37
- 309 Mechanical reinforcement while remaining electrical insulation of glass fibre/polymer composites using core-shell CNT@SiO₂ hybrids as fillers. *Composites Part A: Applied Science and Manufacturing*, **2015**, 73, 260-268 8.4 37
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