

# Xu Jianbin

## 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.

457  
papers

19,987  
citations

74  
h-index

123  
g-index

515  
ext. papers

23,318  
ext. citations

7.5  
avg, IF

7.08  
L-index

#	Paper	IF	Citations
457	Effect of hydrogen bonds on the thermal transport in a precisely branched polyethylene with ordered and amorphous structures. <i>Computational Materials Science</i> , <b>2022</b> , 205, 111191	3.2	1
456	Phase-controlled epitaxial growth of MoTe <sub>2</sub> : Approaching high-quality 2D materials for electronic devices with low contact resistance. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 110902	2.5	0
455	Unveiling the role of filler surface energy in enhancing thermal conductivity and mechanical properties of thermal interface materials. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2022</b> , 157, 106904	8.4	3
454	Abnormally High Thermal Conductivity in Fivefold Twinned Diamond Nanowires. <i>Materials Today Physics</i> , <b>2022</b> , 100705	8	0
453	Dually-Passivated Perovskite Solar Cells with Reduced Voltage Loss and Increased Super Oxide Resistance. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 8384-8393	3.6	5
452	Numerical homogenization of thermal conductivity of particle-filled thermal interface material by fast Fourier transform method. <i>Nanotechnology</i> , <b>2021</b> ,	3.4	3
451	Recent progress in thermally conductive polymer/boron nitride composites by constructing three-dimensional networks. <i>Composites Communications</i> , <b>2021</b> , 24, 100650	6.7	16
450	Enhanced Electrochemical Stability by Alkyldiammonium in Dion-Jacobson Perovskite toward Ultrastable Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100243	8.1	5
449	The selection strategy of ammonium-group organic salts in vapor deposited perovskites: From dimension regulation to passivation. <i>Nano Energy</i> , <b>2021</b> , 84, 105893	17.1	10
448	Controlled Synthesis of MoWTe Atomic Layers with Emergent Quantum States. <i>ACS Nano</i> , <b>2021</b> ,	16.7	2
447	Ultra-Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer J-Aggregate Organic Crystal with Graphene. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100158	8.1	5
446	Defect Etching of Phase-Transition-Assisted CVD-Grown 2H-MoTe <sub>2</sub> . <i>Small</i> , <b>2021</b> , 17, e2102146	11	2
445	Hole-dominated Fowler-Nordheim tunneling in 2D heterojunctions for infrared imaging. <i>Science Bulletin</i> , <b>2021</b> , 66, 139-146	10.6	5
444	Enhancing light-matter interaction in 2D materials by optical micro/nano architectures for high-performance optoelectronic devices. <i>Information Materials</i> , <b>2021</b> , 3, 36-60	23.1	29
443	Uncovering the Electron-Phonon Interplay and Dynamical Energy-Dissipation Mechanisms of Hot Carriers in Hybrid Lead Halide Perovskites. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003071	21.8	8
442	Intrinsic memristive mechanisms in 2D layered materials for high-performance memory. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 050902	2.5	8
441	The Impact of PbI <sub>2</sub> :KI Alloys on the Performance of Sequentially Deposited Perovskite Solar Cells. <i>European Journal of Inorganic Chemistry</i> , <b>2021</b> , 2021, 821-830	2.3	3

440	In Situ Ultrafast and Patterned Growth of Transition Metal Dichalcogenides from Inkjet-Printed Aqueous Precursors. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100260	24	14
439	A spontaneously formed plasmonic-MoTe <sub>2</sub> hybrid platform for ultrasensitive Raman enhancement. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100526	6.1	3
438	Optimization of Effective Thermal Conductivity of Thermal Interface Materials Based on the Genetic Algorithm-Driven Random Thermal Network Model. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 45050-45058	9.5	6
437	2D materials-based homogeneous transistor-memory architecture for neuromorphic hardware. <i>Science</i> , <b>2021</b> , 373, 1353-1358	33.3	46
436	Synthesis and Characterization of Metallic Janus MoSH Monolayer. <i>ACS Nano</i> , <b>2021</b> ,	16.7	5
435	Fully Biodegradable Water Droplet Energy Harvester Based on Leaves of Living Plants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 56060-56067	9.5	23
434	High-speed infrared two-dimensional platinum diselenide photodetectors. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 211101	3.4	23
433	Identifying the functional groups effect on passivating perovskite solar cells. <i>Science Bulletin</i> , <b>2020</b> , 65, 1726-1734	10.6	24
432	Structural Regulation for Highly Efficient and Stable Perovskite Solar Cells via Mixed-Vapor Deposition. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6544-6551	6.1	7
431	Green perovskite light-emitting diodes with simultaneous high luminance and quantum efficiency through charge injection engineering. <i>Science Bulletin</i> , <b>2020</b> , 65, 1832-1839	10.6	15
430	Bifunctional Effects of Trichloro(octyl)silane Modification on the Performance and Stability of a Perovskite Solar Cell via Microscopic Characterization Techniques. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3302-3309	6.1	6
429	Efficient Electronic Transport in Partially Disordered Co <sub>3</sub> O <sub>4</sub> Nanosheets for Electrocatalytic Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3071-3081	6.1	14
428	Enhanced thermo-optic nonlinearities in a MoS <sub>2</sub> -on-silicon microring resonator. <i>Applied Physics Express</i> , <b>2020</b> , 13, 022004	2.4	5
427	Nanoparticles with rationally designed isoelectronic traps as fillers significantly enhance breakdown strength and electrostatic energy density of polymer composites. <i>Composites Science and Technology</i> , <b>2020</b> , 195, 108201	8.6	18
426	Ice-Templated MXene/Ag-Epoxy Nanocomposites as High-Performance Thermal Management Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24298-24307	9.5	51
425	Effects of Alkyl Chain Length on Crystal Growth and Oxidation Process of Two-Dimensional Tin Halide Perovskites. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1422-1429	20.1	62
424	Ordered orientation of silicon carbide nanowires in polymer composites for enhanced permittivity and energy storage density. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 249, 122993	4.4	3
423	Graphene-assisted electro-optomechanical integration on a silicon-on-insulator platform. <i>Optics Express</i> , <b>2020</b> , 28, 14386-14395	3.3	0

4 <sup>22</sup>	Interlayer Cross-Linked 2D Perovskite Solar Cell with Uniform Phase Distribution and Increased Exciton Coupling. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900578	7.1	24
4 <sup>21</sup>	Enhanced four-wave mixing with MoS <sub>2</sub> on a silicon waveguide. <i>Journal of Optics (United Kingdom)</i> , <b>2020</b> , 22, 025503	1.7	14
4 <sup>20</sup>	Polymer composites with high thermal conductivity optimized by polyline-folded graphite paper. <i>Composites Science and Technology</i> , <b>2020</b> , 188, 107970	8.6	16
4 <sup>19</sup>	Achieving Significant Thermal Conductivity Enhancement via an Ice-Templated and Sintered BN-SiC Skeleton. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2892-2902	9.5	57
4 <sup>18</sup>	A self-driven approach for local ion intercalation in vdW crystals. <i>Nanoscale</i> , <b>2020</b> , 12, 1448-1454	7.7	5
4 <sup>17</sup>	Understanding Charge Transport in All-Inorganic Halide Perovskite Nanocrystal Thin-Film Field Effect Transistors. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2614-2623	20.1	15
4 <sup>16</sup>	Carbon Dot-Based Composite Films for Simultaneously Harvesting Raindrop Energy and Boosting Solar Energy Conversion Efficiency in Hybrid Cells. <i>ACS Nano</i> , <b>2020</b> , 14, 10359-10369	16.7	23
4 <sup>15</sup>	An Acoustic Meta-Skin Insulator. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002251	24	14
4 <sup>14</sup>	Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2888-2894	4	1
4 <sup>13</sup>	Cascade Type-II 2D/3D Perovskite Heterojunctions for Enhanced Stability and Photovoltaic Efficiency. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000282	7.1	9
4 <sup>12</sup>	Towards Scalable Fabrications and Applications of 2D Layered Material-based Vertical and Lateral Heterostructures. <i>Chemical Research in Chinese Universities</i> , <b>2020</b> , 36, 525-550	2.2	3
4 <sup>11</sup>	Size Modulation and Heterovalent Doping Facilitated Hybrid Organic and Perovskite Quantum Dot Bulk Heterojunction Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 11359-11367	6.1	10
4 <sup>10</sup>	Observation of Strong -Aggregate Light Emission in Monolayer Molecular Crystal on Hexagonal Boron Nitride. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 7340-7345	2.8	4
4 <sup>09</sup>	Bound-States-in-Continuum Hybrid Integration of 2D Platinum Diselenide on Silicon Nitride for High-Speed Photodetectors. <i>ACS Photonics</i> , <b>2020</b> , 7, 2643-2649	6.3	13
4 <sup>08</sup>	Through-plane assembly of carbon fibers into 3D skeleton achieving enhanced thermal conductivity of a thermal interface material. <i>Chemical Engineering Journal</i> , <b>2020</b> , 380, 122550	14.7	94
4 <sup>07</sup>	Growth dynamics and photoresponse of the Wadsley phase V <sub>6</sub> O <sub>13</sub> crystals. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 6470-6477	7.1	4
4 <sup>06</sup>	Efficient Slantwise Aligned Dion-Jacobson Phase Perovskite Solar Cells Based on Trans-1,4-Cyclohexanediamine. <i>Small</i> , <b>2020</b> , 16, e2003098	11	20
4 <sup>05</sup>	Cripto-1 expression in patients with clear cell renal cell carcinoma is associated with poor disease outcome. <i>Journal of Experimental and Clinical Cancer Research</i> , <b>2019</b> , 38, 378	12.8	8

404	Size and crystallinity control of dispersed VO <sub>2</sub> particles for modulation of metal-insulator transition temperature and hysteresis. <i>CrystEngComm</i> , <b>2019</b> , 21, 5749-5756	3.3	8
403	Room-Temperature Welding of Silver Telluride Nanowires for High-Performance Thermoelectric Film. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37892-37900	9.5	19
402	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 534-541	20.1	63
401	Thermal and illumination effects on a PbI <sub>2</sub> nanoplate and its transformation to CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite. <i>CrystEngComm</i> , <b>2019</b> , 21, 736-740	3.3	3
400	Perovskite Bifunctional Device with Improved Electroluminescent and Photovoltaic Performance through Interfacial Energy-Band Engineering. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902543	24	46
399	Conformational manipulation of scale-up prepared single-chain polymeric nanogels for multiscale regulation of cells. <i>Nature Communications</i> , <b>2019</b> , 10, 2705	17.4	37
398	Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. <i>ACS Nano</i> , <b>2019</b> , 13, 7402-7409	16.7	70
397	Spherical core-shell Al@Al <sub>2</sub> O <sub>3</sub> filled epoxy resin composites as high-performance thermal interface materials. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2019</b> , 123, 260-269	8.4	54
396	Improving thermal conductivity through welding boron nitride nanosheets onto silver nanowires via silver nanoparticles. <i>Composites Science and Technology</i> , <b>2019</b> , 177, 118-126	8.6	59
395	Nacre-inspired polymer composites with high thermal conductivity and enhanced mechanical strength. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2019</b> , 121, 92-99	8.4	49
394	LYPD8 regulates the proliferation and migration of colorectal cancer cells through inhibiting the secretion of IL-6 and TNF- $\alpha$ . <i>Oncology Reports</i> , <b>2019</b> , 41, 2389-2395	3.5	1
393	Stable and scalable 3D-2D planar heterojunction perovskite solar cells via vapor deposition. <i>Nano Energy</i> , <b>2019</b> , 59, 619-625	17.1	62
392	Spray-assisted assembled spherical boron nitride as fillers for polymers with enhanced thermally conductivity. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 166-175	14.7	74
391	van der Waals Transition-Metal Oxide for Vis-MIR Broadband Photodetection via Intercalation Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 15741-15747	9.5	24
390	Interlayer Interaction Enhancement in Ruddlesden-Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1025-1033	20.1	50
389	. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2019</b> , 9, 209-214	3.4	25
388	A Paper-Like Inorganic Thermal Interface Material Composed of Hierarchically Structured Graphene/Silicon Carbide Nanorods. <i>ACS Nano</i> , <b>2019</b> , 13, 1547-1554	16.7	93
387	Silver nanoparticle-modified alumina microsphere hybrid composites for enhanced energy density and thermal conductivity. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2019</b> , 119, 299-309	8.4	26

386	Three-dimensional interconnected graphene microsphere as fillers for enhancing thermal conductivity of polymer. <i>Chemical Engineering Journal</i> , <b>2019</b> , 368, 79-87	14.7	42
385	Artificial control of in-plane anisotropic photoelectricity in monolayer MoS <sub>2</sub> . <i>Applied Materials Today</i> , <b>2019</b> , 15, 203-211	6.6	27
384	Thickness-Dependent Optical Properties and In-Plane Anisotropic Raman Response of the 2D $\alpha$ -SnS <sub>3</sub> . <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1901085	8.1	25
383	Serum chitinase activity prognosticates metastasis of colorectal cancer. <i>BMC Cancer</i> , <b>2019</b> , 19, 629	4.8	2
382	An Interlayer with Strong Pb-Cl Bond Delivers Ultraviolet-Filter-Free, Efficient, and Photostable Perovskite Solar Cells. <i>iScience</i> , <b>2019</b> , 21, 217-227	6.1	28
381	Hybrid 2D-Material Photonics with Bound States in the Continuum. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1901306	8.1	18
380	Molecular cargo delivery using multicellular magnetic microswimmers. <i>Applied Materials Today</i> , <b>2019</b> , 15, 242-251	6.6	28
379	Efficient passivation of monolayer MoS <sub>2</sub> by epitaxially grown 2D organic crystals. <i>Science Bulletin</i> , <b>2019</b> , 64, 1700-1706	10.6	8
378	Direct Observation of Charge Injection of Graphene in the Graphene/WSe Heterostructure by Optical-Pump Terahertz-Probe Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 47501-47506	9.5	11
377	A centrifugal microfluidic pressure regulator scheme for continuous concentration control in droplet-based microreactors. <i>Lab on A Chip</i> , <b>2019</b> , 19, 3870-3879	7.2	8
376	Guanidinium doping enabled low-temperature fabrication of high-efficiency all-inorganic CsPbI <sub>2</sub> Br perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 27640-27647	13	41
375	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , <b>2019</b> , 10, 5589	17.4	36
374	Bulk Heterojunction Quasi-Two-Dimensional Perovskite Solar Cell with 1.18 V High Photovoltage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2935-2943	9.5	12
373	Silver Telluride Nanowire Assembly for High-Performance Flexible Thermoelectric Film and Its Application in Self-Powered Temperature Sensor. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800612	6.4	36
372	Tertiary Amines Differentiated from Primary and Secondary Amines by Active Ester-Functionalized Hexabenzoperylene in Field Effect Transistors. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 1676-1680	4.5	8
371	Restoring the photovoltaic effect in graphene-based van der Waals heterojunctions towards self-powered high-detectivity photodetectors. <i>Nano Energy</i> , <b>2019</b> , 57, 214-221	17.1	46
370	A novel fluorescence $\alpha$ -on-off-on $\beta$ peptide-based chemosensor for simultaneous detection of Cu <sup>2+</sup> , Ag <sup>+</sup> and S <sup>2-</sup> . <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 280, 129-137	8.5	37
369	Highly Confined and Tunable Hyperbolic Phonon Polaritons in Van Der Waals Semiconducting Transition Metal Oxides. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705318	24	118

368	Recent Advances of Solution-Processed Metal Oxide Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 25878-25901	9.5	114
367	Vertically Aligned and Interconnected SiC Nanowire Networks Leading to Significantly Enhanced Thermal Conductivity of Polymer Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9669-9678	9.5	119
366	Deterministic and Etching-Free Transfer of Large-Scale 2D Layered Materials for Constructing Interlayer Coupled van der Waals Heterostructures. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1700282	6.8	20
365	Broadside Nanoantennas Made of Single Silver Nanorods. <i>ACS Nano</i> , <b>2018</b> , 12, 1720-1731	16.7	15
364	Construction of 3D Skeleton for Polymer Composites Achieving a High Thermal Conductivity. <i>Small</i> , <b>2018</b> , 14, e1704044	11	196
363	Enhanced thermal conductivity for Ag-deposited alumina sphere/epoxy resin composites through manipulating interfacial thermal resistance. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 107, 561-569	8.4	73
362	Functionalized Stacks of Hexabenzoperyles as a Platform for Chemical and Biological Sensing. <i>Chem</i> , <b>2018</b> , 4, 1416-1426	16.2	20
361	Polymer composite with enhanced thermal conductivity and mechanical strength through orientation manipulating of BN. <i>Composites Science and Technology</i> , <b>2018</b> , 160, 127-137	8.6	118
360	Liquid nitrogen driven assembly of nanomaterials into spongy millispheres for various applications. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5984-5992	13	10
359	Fused-Ring Electron Acceptor ITIC-Th: A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703399	21.8	80
358	Improving thermal conductivity of polymer composites by reducing interfacial thermal resistance between boron nitride nanotubes. <i>Composites Science and Technology</i> , <b>2018</b> , 165, 322-330	8.6	69
357	Graphene size-dependent modulation of graphene frameworks contributing to the superior thermal conductivity of epoxy composites. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12091-12097	13	67
356	Enhanced Photoresponse in Interfacial Gated Graphene Phototransistor With Ultrathin Al <sub>2</sub> O <sub>3</sub> Dielectric. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 987-990	4.4	6
355	Advances in graphene-based polymer composites with high thermal conductivity <b>2018</b> , 2, 1-17		11
354	Core-shell Cu@rGO hybrids filled in epoxy composites with high thermal conduction. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 257-265	7.1	45
353	Rhodium(I)-catalysed decarbonylative direct C-H arylation and dienylation of arenes. <i>Organic Chemistry Frontiers</i> , <b>2018</b> , 5, 734-740	5.2	24
352	1T' Transition Metal Telluride Atomic Layers for Plasmon-Free SERS at Femtomolar Levels. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8696-8704	16.4	114
351	General Nondestructive Passivation by 4-Fluoroaniline for Perovskite Solar Cells with Improved Performance and Stability. <i>Small</i> , <b>2018</b> , 14, e1803350	11	52

350	Graphene/In2S3 van der Waals Heterostructure for Ultrasensitive Photodetection. <i>ACS Photonics</i> , <b>2018</b> , 5, 4912-4919	6.3	28
349	Graphene controlled Brewster angle device for ultra broadband terahertz modulation. <i>Nature Communications</i> , <b>2018</b> , 9, 4909	17.4	79
348	Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer. <i>Joule</i> , <b>2018</b> , 2, 2706-2721	27.8	82
347	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> , <b>2018</b> , 30, e1801562	24	41
346	Improving the Quality of the Si/Cu2O Interface by Methyl-Group Passivation and Its Application in Photovoltaic Devices. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1600833	4.6	4
345	Realization of vertical and lateral van der Waals heterojunctions using two-dimensional layered organic semiconductors. <i>Nano Research</i> , <b>2017</b> , 10, 1336-1344	10	23
344	Epitaxial Stitching and Stacking Growth of Atomically Thin Transition-Metal Dichalcogenides (TMDCs) Heterojunctions. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1603884	15.6	57
343	Controlled Electrochemical Deposition of Large-Area MoS2 on Graphene for High-Responsivity Photodetectors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1603998	15.6	39
342	Fully solution-processed metal oxide thin-film transistors via a low-temperature aqueous route. <i>Ceramics International</i> , <b>2017</b> , 43, 6130-6137	5.1	39
341	Textured CH3NH3PbI3 thin film with enhanced stability for high performance perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 33, 485-496	17.1	65
340	Growth of Large-Scale, Large-Size, Few-Layered HMoO on SiO and Its Photoresponse Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 5543-5549	9.5	31
339	Large-Grain Formamidinium PbI3/Brx for High-Performance Perovskite Solar Cells via Intermediate Halide Exchange. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601882	21.8	61
338	A Combination of Boron Nitride Nanotubes and Cellulose Nanofibers for the Preparation of a Nanocomposite with High Thermal Conductivity. <i>ACS Nano</i> , <b>2017</b> , 11, 5167-5178	16.7	297
337	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> , <b>2017</b> , 1,	8.8	144
336	A Study on the Factors about Customers' Acceptability to Airline Ancillary Products. <i>Procedia Computer Science</i> , <b>2017</b> , 107, 39-46	1.6	2
335	Crystallinity Preservation and Ion Migration Suppression through Dual Ion Exchange Strategy for Stable Mixed Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700118	21.8	58
334	Highly Sensitive and Broadband Organic Photodetectors with Fast Speed Gain and Large Linear Dynamic Range at Low Forward Bias. <i>Small</i> , <b>2017</b> , 13, 1603260	11	79
333	Highly polarization sensitive infrared photodetector based on black phosphorus-on-WSe 2 photogate vertical heterostructure. <i>Nano Energy</i> , <b>2017</b> , 37, 53-60	17.1	185

332	A novel h-BN/BGO hybrids for epoxy resin composites achieving enhanced high thermal conductivity and energy density. <i>RSC Advances</i> , <b>2017</b> , 7, 23355-23362	3.7	39
331	Graphene and related two-dimensional materials: Structure-property relationships for electronics and optoelectronics. <i>Applied Physics Reviews</i> , <b>2017</b> , 4, 021306	17.3	368
330	Polymer Composite with Improved Thermal Conductivity by Constructing a Hierarchically Ordered Three-Dimensional Interconnected Network of BN. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 13544-13553	9.5	278
329	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. <i>ACS Nano</i> , <b>2017</b> , 11, 4507-4513	16.7	315
328	High-Performance Broadband Floating-Base Bipolar Phototransistor Based on WSe <sub>2</sub> /BP/MoS <sub>2</sub> Heterostructure. <i>ACS Photonics</i> , <b>2017</b> , 4, 823-829	6.3	66
327	Centimeter-Scale CVD Growth of Highly Crystalline Single-Layer MoS Film with Spatial Homogeneity and the Visualization of Grain Boundaries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 12073-12081	9.5	99
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316	Learning from Natural Nacre: Constructing Layered Polymer Composites with High Thermal Conductivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33001-33010	9.5	113
315	Self-Assembled Injectable Nanocomposite Hydrogels Stabilized by Bisphosphonate-Magnesium (Mg <sup>2+</sup> ) Coordination Regulates the Differentiation of Encapsulated Stem Cells via Dual Crosslinking. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701642	15.6	84

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312	Manipulating Orientation of Silicon Carbide Nanowire in Polymer Composites to Achieve High Thermal Conductivity. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700446	4.6	30
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62	Magnetic domain structures and giant magnetoresistance of granular (Ni <sub>74</sub> Fe <sub>16</sub> Co <sub>10</sub> ) <sub>35</sub> Ag <sub>65</sub> films. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 4216	2.5	3
61	Low-temperature preparation and characterization of SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> thin films on (100)-oriented LaNiO <sub>3</sub> electrodes. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1758-1760	3.4	40
60	Probing local leakage current and ferroelectricity of Pb(Zr <sub>0.53</sub> , Ti <sub>0.47</sub> )O <sub>3</sub> /YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> heterostructure by a modified atomic force microscope. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 1923-1925	3.4	15
59	Ion channeling studies on mixed phases formed in metalorganic chemical vapor deposition grown Mg-doped GaN on Al <sub>2</sub> O <sub>3</sub> (0001). <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 955-957	2.5	5
58	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> , <b>2000</b> , 61, 203-206	3.3	54
57	Magnetic properties of Fe <sup>+</sup> -implanted silica films after post-implantation annealing. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 2745-2749	2.5	15
56	Field emission characteristics of SiC capped Si tip array by ion beam synthesis. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1999</b> , 17, 2109-2112	2.9	11
55	Aggregation and out diffusion of iron atoms for Fe ion implanted silica films. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 2550-2554	2.5	10
54	Domain imaging and local piezoelectric properties of the (200)-predominant SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> thin film. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1610-1612	3.4	30
53	Structure control and characterization of SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> thin films by a modified annealing method. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 1221-1223	3.4	62
52	Effects of a Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> buffer layer on SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> thin films prepared by the metalorganic decomposition. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 3711-3713	3.4	17
51	Study of Excess Silicon at Si <sub>3</sub> N <sub>4</sub> / Thermal SiO <sub>2</sub> Interface Using EELS and Ellipsometric Measurements. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 780-785	3.9	21
50	Electrical properties of nitrogen incorporated tetrahedral amorphous carbon films. <i>Thin Solid Films</i> , <b>1999</b> , 339, 74-77	2.2	18
49	Ion beam synthesized cobalt germanide alloy by metal vapor vacuum arc implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 148, 604-609	1.2	5
48	Characterization and giant magnetoresistance effect in cobalt/silver granular films formed by MEVVA implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1999</b> , 148, 813-818	1.2	7
47	Surface roughness and oxide contents of gas-phase and solution-phase polysulfide passivation of III-V surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1999</b> , 17, 93-96	2.9	
46	Room temperature visible electroluminescence in silicon nanostructures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1999</b> , 17, 159-163	2.9	25
45	Synthesis and microstructural properties of tetrahedral amorphous carbon films. <i>Journal of Non-Crystalline Solids</i> , <b>1999</b> , 254, 161-166	3.9	11

44	Studies of leakage current inhomogeneity of Pb(Zr, Ti)O <sub>3</sub> /YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> heterostructures on a nanometer scale. <i>Journal of Non-Crystalline Solids</i> , <b>1999</b> , 254, 112-117	3.9	4
43	An STM and atomic force microscopy study of the effects of 1.8 MeV electron bombardment on the surface of graphite. <i>Journal of Materials Science</i> , <b>1998</b> , 33, 4657-4663	4.3	
42	Crystallization of ion-beam-synthesized SiC layer by thermal annealing. <i>Applied Physics A: Materials Science and Processing</i> , <b>1998</b> , 66, S539-S543	2.6	4
41	Identifying conducting phase from the insulating matrix in percolating metal-insulator nanocomposites by conducting atomic force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>1998</b> , 66, S1171-S1174	2.6	18
40	Surface morphology of nitrogen doped tetrahedral amorphous carbon films on silicon by atomic microscopy imaging. <i>Materials Letters</i> , <b>1998</b> , 34, 1-4	3.3	5
39	Room temperature visible photoluminescence from crystallized nano-Si thin films. <i>Journal of Non-Crystalline Solids</i> , <b>1998</b> , 227-230, 1045-1048	3.9	
38	Optical properties in infra-red region of nitrogen-incorporated amorphous carbon films. <i>Diamond and Related Materials</i> , <b>1998</b> , 7, 491-494	3.5	3
37	Electron field emission from SiC/Si heterostructures synthesized by carbon implantation using a metal vapor vacuum arc ion source. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 1926-1928	3.4	25
36	Short Range Order and the Nature of Defects and Traps in Amorphous Silicon Oxynitride Governed by the Mott Rule. <i>Physical Review Letters</i> , <b>1998</b> , 81, 1054-1057	7.4	66
35	Electroluminescence from ZnS <sub>Te</sub> :Al alloy and investigation of local current distributions by conducting atomic force microscopy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1998</b> , 16, 14		4
34	Probing conducting particles buried in a Ni <sub>x</sub> (SiO <sub>2</sub> ) <sub>1-x</sub> composite by conducting atomic force microscopy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1998</b> , 16, 1953		3
33	Atomic Force Microscope Studies on Domain Dynamics in Phosphate Substituted Triglycine Sulfate Single Crystals: Evidence for the Domain Boundary Motion towards Negative Region and Holes Formation at the Domain Boundary. <i>Japanese Journal of Applied Physics</i> , <b>1998</b> , 37, 6177-6182	1.4	4
32	Magnetic domain structures of Co <sub>22</sub> Ag <sub>78</sub> granular films observed by magnetic force microscopy. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 2472-2474	3.4	34
31	Atomic force microscopy study of microcrystalline SiC fabricated by ion beam synthesis. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1998</b> , 16, 968-973	2.9	5
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29	Domain Structure Investigations of Triglycine Sulfo-Phosphate Single Crystal: Evidence of Domain Motion with Time at Room Temperature. <i>Japanese Journal of Applied Physics</i> , <b>1997</b> , 36, 4377-4381	1.4	8
28	Surface Morphology of Ferroelectric Domains in BaTiO <sub>3</sub> Single Crystals: An Atomic Force Microscope Study. <i>Japanese Journal of Applied Physics</i> , <b>1997</b> , 36, 5566-5569	1.4	19
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26	Dendritic crystallization of amorphous germanium by in situ thermal pulse annealing. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 7757-7763	2.5	5
25	Epitaxial regrowth of Ge films on (001) GaAs by in situ thermal pulse annealing of evaporated amorphous germanium. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 865-867	3.4	8
24	Tip artifacts in atomic force microscope imaging of ion bombarded nanostructures on germanium surfaces. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 5859-5861	2.5	7
23	Resonant conducting tip nano-patterning the hydrogen-passivated Si(100) by atomic force microscopy. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 2035-2037	3.4	1
22	A study of ion-bombarded nanostructures on germanium surfaces by scanning probe microscopy. <i>Thin Solid Films</i> , <b>1997</b> , 308-309, 415-419	2.2	
21	Single ion impacts on an In <sub>0.22</sub> Ga <sub>0.78</sub> As/GaAs(100) surface observed by atomic force microscopy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1997</b> , 124, 500-505	1.2	1
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18	Surface morphology of metalorganic vapor phase epitaxy grown InAs and InGaAs observed by atomic force microscopy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1996</b> , 14, 1105		
17	Energetic ion impacts on quartz surfaces: a study by atomic force microscopy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 118, 473-477	1.2	13
16	Grain boundary enhanced oxygen out-diffusion in annealed polycrystalline Si/SiO <sub>2</sub> /crystalline Si structures. <i>Thin Solid Films</i> , <b>1996</b> , 286, 317-320	2.2	0
15	Oxygen gettering and oxide degradation during annealing of Si/SiO <sub>2</sub> /Si structures. <i>Journal of Applied Physics</i> , <b>1995</b> , 77, 175-186	2.5	56
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11	Spiral growth of GaAs by molecular beam epitaxy. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 1552-1554	3.4	9
10	Spiral growth of InP by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 1394-1396	3.4	6
9	Heat transfer between two metallic surfaces at small distances. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 7209-7216	3.4	16

8	Spiral growth of GaAs by metalorganic vapor phase epitaxy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1994</b> , 12, 2115		4
7	Spiral growth of GaAs by metalorganic vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 1959-1961	3,4	15
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5	Energy-exchange processes by tunneling electrons. <i>Applied Physics A: Solids and Surfaces</i> , <b>1994</b> , 59, 155-161		28
4	Thermal sensors for investigation of heat transfer in scanning probe microscopy. <i>Review of Scientific Instruments</i> , <b>1994</b> , 65, 2262-2266	1,7	23
3	Novel molecular device based on electrostatic interactions in organic polymers		1
2	Synthesis and characterization of SrTiO <sub>3</sub> /thin films by a modified metalorganic decomposition technique		1
1	Investigation on the Fano-Type Asymmetry in Atomic Semiconductor Coupled to the Plasmonic Lattice. <i>ACS Photonics</i> ,	6,3	1