

# Jianjun Tian

## List of Publications by Year in descending order

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124  
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#	ARTICLE	IF	CITATIONS
1	Highly Efficient and Stable Perovskite Solar Cells Based on Monolithically Grained $\text{CH}_3\text{NH}_3\text{PbI}_3$ Film. <i>Advanced Energy Materials</i> , 2017, 7, 1602017.	19.5	291
2	Thermally Stable Copper(II)-Doped Cesium Lead Halide Perovskite Quantum Dots with Strong Blue Emission. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 943-952.	4.6	274
3	From scalable solution fabrication of perovskite films towards commercialization of solar cells. <i>Energy and Environmental Science</i> , 2019, 12, 518-549.	30.8	269
4	Improved Stability and Photodetector Performance of $\text{CsPbI}_3$ Perovskite Quantum Dots by Ligand Exchange with Aminoethanethiol. <i>Advanced Functional Materials</i> , 2019, 29, 1902446.	14.9	206
5	Original Core-Shell Structure of Cubic $\text{CsPbBr}_3$ @Amorphous $\text{CsPbBr}_3$ Perovskite Quantum Dots with a High Blue Photoluminescence Quantum Yield of over 80%. <i>ACS Energy Letters</i> , 2018, 3, 245-251.	17.4	202
6	Perovskite Quantum Dots with Ultralow Trap Density by Acid Etching-Driven Ligand Exchange for High Luminescence and Stable Pure-Blue Light-Emitting Diodes. <i>Advanced Materials</i> , 2021, 33, e2006722.	21.0	196
7	Enhanced Performance of $\text{CdS}/\text{CdSe}$ Quantum Dot Cosensitized Solar Cells via Homogeneous Distribution of Quantum Dots in $\text{TiO}_2$ Film. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18655-18662.	3.1	176
8	$\text{Sn}$ -Doped $\text{V}_2\text{O}_5$ Film with Enhanced Lithium-Ion Storage Performance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23507-23514.	3.1	170
9	Monolithic $\text{MAPbI}_3$ films for high-efficiency solar cells via coordination and a heat assisted process. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21313-21319.	10.3	132
10	A highly efficient (>6%) $\text{Cd}_{1-x}\text{Mn}_x\text{Se}$ quantum dot sensitized solar cell. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19653-19659.	10.3	126
11	$\text{ZnO}/\text{TiO}_2$ nanocable structured photoelectrodes for $\text{CdS}/\text{CdSe}$ quantum dot co-sensitized solar cells. <i>Nanoscale</i> , 2013, 5, 936-943.	5.6	124
12	Controlled growth of textured perovskite films towards high performance solar cells. <i>Nano Energy</i> , 2016, 27, 17-26.	16.0	123
13	Architected $\text{ZnO}$ photoelectrode for high efficiency quantum dot sensitized solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 3542.	30.8	116
14	Semiconductor quantum dot-sensitized solar cells. <i>Nano Reviews</i> , 2013, 4, 22578.	3.7	109
15	Surface Trap States Passivation for High-Performance Inorganic Perovskite Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800188.	5.8	103
16	Control of Nanostructures and Interfaces of Metal Oxide Semiconductors for Quantum-Dots-Sensitized Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1859-1869.	4.6	102
17	Spray-Coated Colloidal Perovskite Quantum Dot Films for Highly Efficient Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1906615.	14.9	100
18	Stable $\text{CsPbI}_3$ - $\text{ZnI}_2$ Colloidal Quantum Dots with Ultralow Density of Trap States for High-Performance Solar Cells. <i>Chemistry of Materials</i> , 2020, 32, 6105-6113.	6.7	93

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19	Stable and Strong Emission CsPbBr <sub>3</sub> Quantum Dots by Surface Engineering for High-Performance Optoelectronic Films. ACS Applied Materials & Interfaces, 2019, 11, 25410-25416.	8.0	91
20	Constructing water-resistant CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite films via coordination interaction. Journal of Materials Chemistry A, 2016, 4, 17018-17024.	10.3	89
21	Colloidal engineering for monolayer CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> films toward high performance perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 24168-24177.	10.3	87
22	Hierarchically Structured ZnO Nanorodsâ€Nanosheets for Improved Quantum-Dot-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 4466-4472.	8.0	85
23	Engineering Halide Perovskite Crystals through Precursor Chemistry. Small, 2019, 15, e1903613.	10.0	82
24	Room-Temperature Construction of Mixed-Halide Perovskite Quantum Dots with High Photoluminescence Quantum Yield. Journal of Physical Chemistry C, 2018, 122, 5151-5160.	3.1	79
25	CsPbI <sub>3</sub> /PbSe Heterostructured Nanocrystals for High-Efficiency Solar Cells. ACS Energy Letters, 2020, 5, 2401-2410.	17.4	77
26	Influence of Cationic Precursors on CdS Quantum-Dot-Sensitized Solar Cell Prepared by Successive Ionic Layer Adsorption and Reaction. Journal of Physical Chemistry C, 2013, 117, 26948-26956.	3.1	76
27	Constructing ZnO nanorod array photoelectrodes for highly efficient quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 6770.	10.3	74
28	Heat treatment effects on Fe <sub>3</sub> O <sub>4</sub> nanoparticles structure and magnetic properties prepared by carbothermal reduction. Journal of Alloys and Compounds, 2011, 509, 2316-2319.	5.5	72
29	Enhanced Performance of PbS-quantum-dot-sensitized Solar Cells via Optimizing Precursor Solution and Electrolytes. Scientific Reports, 2016, 6, 23094.	3.3	69
30	Spontaneous Self-Assembly of Cesium Lead Halide Perovskite Nanoplatelets into Cuboid Crystals with High Intensity Blue Emission. Advanced Science, 2019, 6, 1900462.	11.2	69
31	Self-Assembled Perovskite Nanowire Clusters for High Luminance Red Light-Emitting Diodes. Advanced Functional Materials, 2020, 30, 2005990.	14.9	67
32	Structural, magnetic and optical properties of Ni-doped TiO <sub>2</sub> thin films deposited on silicon(100) substrates by sol-gel process. Journal of Alloys and Compounds, 2013, 581, 318-323.	5.5	63
33	Rare earth elements recycling from waste phosphor by dual hydrochloric acid dissolution. Journal of Hazardous Materials, 2014, 272, 96-101.	12.4	63
34	High-Voltage-Efficiency Inorganic Perovskite Solar Cells in a Wide Solution-Processing Window. Journal of Physical Chemistry Letters, 2018, 9, 3646-3653.	4.6	63
35	Design, fabrication and modification of metal oxide semiconductor for improving conversion efficiency of excitonic solar cells. Coordination Chemistry Reviews, 2016, 320-321, 193-215.	18.8	56
36	Monolayer-like hybrid halide perovskite films prepared by additive engineering without antisolvents for solar cells. Journal of Materials Chemistry A, 2018, 6, 15386-15394.	10.3	53

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37	Influence of transition metal doping on the structural, optical, and magnetic properties of TiO <sub>2</sub> films deposited on Si substrates by a sol-gel process. <i>Nanoscale Research Letters</i> , 2013, 8, 533.	5.7	52
38	Dynamic Growth of Pinhole-Free Conformal CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Film for Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 4684-4690.	8.0	50
39	Rapid construction of TiO <sub>2</sub> aggregates using microwave assisted synthesis and its application for dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 8622-8629.	3.6	49
40	Investigation of the role of Mn dopant in CdS quantum dot sensitized solar cell. <i>Electrochimica Acta</i> , 2016, 191, 62-69.	5.2	49
41	Electroluminescence Principle and Performance Improvement of Metal Halide Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2021, 9, 2002167.	7.3	49
42	Microsphere Light-Scattering Layer Assembled by ZnO Nanosheets for the Construction of High Efficiency (>5%) Quantum Dots Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16611-16617.	3.1	47
43	Copper nanocrystal modified activated carbon for supercapacitors with enhanced volumetric energy and power density. <i>Journal of Power Sources</i> , 2013, 236, 215-223.	7.8	44
44	Broadband hybrid organic/CuInSe <sub>2</sub> quantum dot photodetectors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2573-2579.	5.5	44
45	ZnO nanocrystallite aggregates synthesized through interface precipitation for dye-sensitized solar cells. <i>Nano Energy</i> , 2013, 2, 40-48.	16.0	43
46	Continuous Size Tuning of Monodispersed ZnO Nanoparticles and Its Size Effect on the Performance of Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9785-9794.	8.0	43
47	Nanorod-nanosheet hierarchically structured ZnO crystals on zinc foil as flexible photoanodes for dye-sensitized solar cells. <i>Nanoscale</i> , 2013, 5, 1894.	5.6	42
48	Microwave-Assisted Synthesis of SnO <sub>2</sub> Nanosheets Photoanodes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25931-25938.	3.1	42
49	Cu <sub>3</sub> Se <sub>2</sub> nanostructure as a counter electrode for high efficiency quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8020-8026.	5.5	42
50	Recent advances in counter electrodes of quantum dot-sensitized solar cells. <i>RSC Advances</i> , 2016, 6, 90082-90099.	3.6	41
51	Mn-Zn soft magnetic ferrite nanoparticles synthesized from spent alkaline Zn-Mn batteries. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3991-3994.	5.5	40
52	Repairing Defects of Halide Perovskite Films To Enhance Photovoltaic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37005-37013.	8.0	40
53	Improved charge generation and collection in dye-sensitized solar cells with modified photoanode surface. <i>Nano Energy</i> , 2014, 10, 353-362.	16.0	38
54	Novel Photoanode for Dye-Sensitized Solar Cells with Enhanced Light-Harvesting and Electron-Collection Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13418-13425.	8.0	38

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55	Carbothermal reduction method for Fe <sub>3</sub> O <sub>4</sub> powder synthesis. Journal of Alloys and Compounds, 2010, 502, 338-340.	5.5	36
56	Dye-sensitized solar cells based on hierarchically structured porous TiO <sub>2</sub> filled with nanoparticles. Journal of Materials Chemistry A, 2015, 3, 11320-11329.	10.3	34
57	Controlled crystallinity and morphologies of 2D Ruddlesden-Popper perovskite films grown without anti-solvent for solar cells. Chemical Engineering Journal, 2020, 394, 124959.	12.7	33
58	Gradient-Band Alignment Homojunction Perovskite Quantum Dot Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 1018-1024.	4.6	33
59	Effect of WC particle size on the microstructure, mechanical properties and fracture behavior of WC-(W, Ti, Ta) C-6wt% Co cemented carbides. International Journal of Refractory Metals and Hard Materials, 2007, 25, 405-410.	3.8	32
60	Significant Stability Enhancement of Perovskite Solar Cells by Facile Adhesive Encapsulation. Journal of Physical Chemistry C, 2018, 122, 25260-25267.	3.1	31
61	Surface Engineering of Quantum Dots for Remarkably High Detectivity Photodetectors. Journal of Physical Chemistry Letters, 2018, 9, 3285-3294.	4.6	31
62	Operational Stability Issues and Challenges in Metal Halide Perovskite Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2022, 13, 1962-1971.	4.6	31
63	Effects of Co doping on structure and optical properties of TiO <sub>2</sub> thin films prepared by sol-gel method. Thin Solid Films, 2012, 520, 5179-5183.	1.8	30
64	CuInSe <sub>2</sub> Quantum Dots Hybrid Hole Transfer Layer for Halide Perovskite Photodetectors. ACS Applied Materials & Interfaces, 2018, 10, 35656-35663.	8.0	30
65	Interphases, Interfaces, and Surfaces of Active Materials in Rechargeable Batteries and Perovskite Solar Cells. Advanced Materials, 2021, 33, e1905245.	21.0	30
66	Controlled growth of Cu <sub>3</sub> Se <sub>2</sub> nanosheets array counter electrode for quantum dots sensitized solar cell through ion exchange. Science China Materials, 2017, 60, 637-645.	6.3	27
67	An air-stable ultraviolet photodetector based on mesoporous TiO <sub>2</sub> /spiro-OMeTAD. Journal of Materials Chemistry C, 2017, 5, 10543-10548.	5.5	26
68	Synthesis of Colloidal Blue-Emitting InP/ZnS Core/Shell Quantum Dots with the Assistance of Copper Cations. Journal of Physical Chemistry Letters, 2019, 10, 6720-6726.	4.6	26
69	Insights into iodoplumbate complex evolution of precursor solutions for perovskite solar cells: from aging to degradation. Journal of Materials Chemistry A, 2021, 9, 6732-6748.	10.3	26
70	A structure of CdS/Cu <sub>x</sub> S quantum dots sensitized solar cells. Applied Physics Letters, 2016, 108, 213901.	3.3	25
71	A ZnO nanorod layer with a superior light-scattering effect for dye-sensitized solar cells. RSC Advances, 2013, 3, 18537.	3.6	23
72	Impact of sol aging on TiO <sub>2</sub> compact layer and photovoltaic performance of perovskite solar cell. Science China Materials, 2016, 59, 710-718.	6.3	23

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73	Ultra-long photoluminescence lifetime in an inorganic halide perovskite thin film. Journal of Materials Chemistry A, 2019, 7, 22229-22234.	10.3	23
74	Ultrathin ALD coating on TiO <sub>2</sub> photoanodes with enhanced quantum dot loading and charge collection in quantum dots sensitized solar cells. Science China Materials, 2016, 59, 833-841.	6.3	21
75	Dip-coated colloidal quantum-dot films for high-performance broadband photodetectors. Journal of Materials Chemistry C, 2019, 7, 6266-6272.	5.5	21
76	Co-reduction synthesis of uniform ferromagnetic SmCo nanoparticles. Materials Letters, 2012, 68, 212-214.	2.6	20
77	Double Active Layers Constructed with Halide Perovskite and Quantum Dots for Broadband Photodetection. Advanced Optical Materials, 2020, 8, 2000557.	7.3	19
78	Multiple-Function Surface Engineering of SnO <sub>2</sub> Nanoparticles to Achieve Efficient Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 9142-9148.	4.6	19
79	Enhanced magnetoelectric effect in magnetostrictive/piezoelectric laminates through adopting magnetic warm compaction Terfenol-D. Journal of Alloys and Compounds, 2014, 587, 287-289.	5.5	18
80	Critical current density and vortex pinning in tetragonal FeS <sub>1-x</sub> Se <sub>x</sub> (x=0,0.06). Physical Review B, 2016, 94, .	3.2	18
81	Enhanced-performance of self-powered flexible quantum dot photodetectors by a double hole transport layer structure. Nanoscale, 2019, 11, 9626-9632.	5.6	18
82	Anisotropic bonded NdFeB magnets with radial oriented magnetization by 2-step warm compaction process. Journal of Alloys and Compounds, 2009, 477, 510-514.	5.5	17
83	Magnetic and optical properties of La-doped BiFeO <sub>3</sub> films prepared by sol-gel route. Journal of Materials Science: Materials in Electronics, 2015, 26, 700-704.	2.2	16
84	Electron Delocalization in CsPbI <sub>3</sub> Quantum Dots Enables Efficient Light-Emitting Diodes with Improved Efficiency Roll-off. Advanced Optical Materials, 2022, 10, .	7.3	16
85	Architecturing high magnetic properties of NdFeB/SmFeN hybrid magnets. Materials Letters, 2013, 105, 87-89.	2.6	15
86	Hierarchical ZnO microspheres photoelectrodes assembled with Zn chalcogenide passivation layer for high efficiency quantum dot sensitized solar cells. Journal of Power Sources, 2018, 401, 255-262.	7.8	15
87	Combined <i>in Situ</i> Photoluminescence and X-ray Scattering Reveals Defect Formation in Lead-Halide Perovskite Films. Journal of Physical Chemistry Letters, 2021, 12, 10156-10162.	4.6	15
88	High Efficiency and Narrow Emission Band Pure-Red Perovskite Colloidal Quantum Wells. Journal of Physical Chemistry Letters, 2021, 12, 10735-10741.	4.6	14
89	Influence of Ni doping on phase transformation and optical properties of TiO <sub>2</sub> films deposited on quartz substrates by sol-gel process. Applied Surface Science, 2012, 258, 4893-4897.	6.1	11
90	Perovskite CsPbBr <sub>3</sub> Quantum Dots Prepared Using Discarded Lead-Acid Battery Recycled Waste. Energies, 2019, 12, 1117.	3.1	11

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91	Controllable Ferromagnetism in Super-tetragonal PbTiO <sub>3</sub> through Strain Engineering. Nano Letters, 2020, 20, 881-886.	9.1	11
92	Demystifying the Formation of Colloidal Perovskite Nanocrystals via Controlling Stepwise Synthesis. Journal of Physical Chemistry C, 2021, 125, 14204-14211.	3.1	11
93	Improving the Performance and Stability of Perovskite Solar Cells through Buried Interface Passivation Using Potassium Hydroxide. ACS Applied Energy Materials, 2022, 5, 1914-1921.	5.1	11
94	Thermally Stable Red-Emitting Mixed Halide Perovskite Nanocrystals Enabled by Solid Reaction and Co-Doping Process. Advanced Optical Materials, 2022, 10, .	7.3	11
95	Optical properties of Fe-doped BaTiO <sub>3</sub> films deposited on quartz substrates by sol-gel method. Journal of Alloys and Compounds, 2016, 687, 529-533.	5.5	10
96	Spray Coated Colloidal Quantum Dot Films for Broadband Photodetectors. Nanomaterials, 2019, 9, 1738.	4.1	10
97	Exploiting Flexible Memristors Based on Solution-Processed Colloidal CuInSe <sub>2</sub> Nanocrystals. Advanced Electronic Materials, 2020, 6, 2000035.	5.1	10
98	High-Quality FAPbI <sub>3</sub> Film Assisted by Lead Acetate for Efficient Solar Cells. Solar Rrl, 2021, 5, 2100747.	5.8	10
99	Behavior of residual carbon in Sm(Co, Fe, Cu, Zr) <sub>z</sub> permanent magnets. Journal of Alloys and Compounds, 2007, 440, 89-93.	5.5	9
100	Effects of Co doping on the phase transformation and optical properties of TiO <sub>2</sub> thin films by sol-gel method. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 550-554.	2.7	9
101	Exploring performance degradation of quantum-dot light-emitting diodes. Journal of Materials Chemistry C, 2022, 10, 8642-8649.	5.5	9
102	Tuning optical and magnetic properties of nanocrystalline BaTiO <sub>3</sub> films by Fe doping. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	8
103	Highly Pure White Light-Emitting Single-Component Perovskite Colloidal Quantum Dots. Journal of Physical Chemistry C, 2021, 125, 18810-18816.	3.1	8
104	Induction of Wurtzite to Zinc-Blende Phase Transformation in ZnSe Nanorods During Cu(I) Cation Exchange. Chemistry of Materials, 2021, 33, 2398-2407.	6.7	7
105	Antioxidation Study of Sm(Co, Cu, Fe, Zr) <sub>z</sub> -Sintered Permanent Magnets by Metal Injection Molding. Journal of Rare Earths, 2006, 24, 569-573.	4.8	6
106	2:17-type SmCo magnets prepared by powder injection molding using a water-based binder. Journal of Magnetism and Magnetic Materials, 2008, 320, 2168-2171.	2.3	6
107	Effects of Fe doping on the optical and magnetic properties of TiO <sub>2</sub> films deposited on Si substrates by a sol-gel route. Journal of Sol-Gel Science and Technology, 2015, 74, 521-527.	2.4	6
108	Titanium dioxide nanowires modified tin oxide hollow spheres for dye-sensitized solar cells. MRS Communications, 2016, 6, 226-233.	1.8	6



109	Gradient Annealing of Halide Perovskite Films for Improved Performance of Solar Cells. ACS Applied Energy Materials, 2020, 3, 8130-8134.	5.1	6
110	Magnetic properties and microstructure of radially oriented Sm(Co,Fe,Cu,Zr) <sub>z</sub> ring magnets. Materials Letters, 2007, 61, 5271-5274.	2.6	5
111	Radial cracks and fracture mechanism of radially oriented ring 2:17 type SmCo magnets. Journal of Alloys and Compounds, 2009, 476, 98-101.	5.5	5
112	Bonded Terfenol-D composites with low eddy current loss and high magnetostriction. Rare Metals, 2010, 29, 579-582.	7.1	5
113	Photoelectrochemical Performance Enhancement of ZnSe Nanorods versus Dots: Combined Experimental and Computational Insights. Journal of Physical Chemistry Letters, 2020, 11, 10414-10420.	4.6	5
114	Atomic Sulfur Passivation Improves the Photoelectrochemical Performance of ZnSe Nanorods. Nanomaterials, 2020, 10, 1081.	4.1	5
115	Fe <sub>0.36(4)</sub> Pd <sub>0.64(4)</sub> Se <sub>2</sub> : Magnetic Spin-Glass Polymorph of FeSe <sub>2</sub> and PdSe <sub>2</sub> Stable at Ambient Pressure. Inorganic Chemistry, 2019, 58, 3107-3114.	4.0	4
116	Filtering Strategy of Colloidal Quantum Dots for Improving Performance of Light-Emitting Diodes. Journal of Physical Chemistry C, 2021, 125, 2299-2305.	3.1	4
117	A boosting carrier transfer passivation layer for achieving efficient perovskite solar cells. Journal of Materials Chemistry C, 2022, 10, 9794-9801.	5.5	4
118	Fe doping enhances ferromagnetism in MgTiO <sub>3</sub> films. Journal of Materials Science: Materials in Electronics, 2019, 30, 10499-10506.	2.2	3
119	Stable and Efficient Red-Emitting Perovskite Cross-Shaped Nanoplates. Journal of Physical Chemistry Letters, 2022, 13, 1506-1511.	4.6	3
120	Absence of long-range magnetic order in $\text{Fe}_{1-x}\text{Te}_x$ ( $0 \leq x \leq 1$ )		
121	Evolution of magnetoresistance with temperature in the insulating van der Waals compound Ta <sub>2</sub> Pd <sub>3</sub> Te <sub>5</sub> . Applied Physics Letters, 2022, 120, 161901.	3.3	3
122	Magnetic properties and thermal stability of anisotropic bonded Nd-Fe-B magnets by warm compaction. Rare Metals, 2009, 28, 245-247.	7.1	2
123	Nucleation Temperature-Dependent Synthesis of Polytypic CuInSe <sub>2</sub> Nanostructures with Variable Tetrapod-Like and Core-Shell Morphologies. ChemNanoMat, 0, , .	2.8	1
124	CdS/CdSe Quantum Dot Co-sensitized Solar Cells. , 2013, , .		0