

# Feng Wang

## List of Publications by Year in descending order

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69  
papers

8,553  
citations

61857

43  
h-index

91712

69  
g-index

71  
all docs

71  
docs citations

71  
times ranked

13316  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic Harvesting of Light Energy for Suzuki Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 5588-5601.	6.6	597
2	Phenylalkylamine Passivation of Organolead Halide Perovskites Enabling High Efficiency and Air-Stable Photovoltaic Cells. <i>Advanced Materials</i> , 2016, 28, 9986-9992.	11.1	532
3	General Properties of Local Plasmons in Metal Nanostructures. <i>Physical Review Letters</i> , 2006, 97, 206806.	2.9	446
4	Growth of Tetrahedral Gold Nanocrystals with High-Index Facets. <i>Journal of the American Chemical Society</i> , 2009, 131, 16350-16351.	6.6	357
5	Amine-Capped Zn <sup>2+</sup> Nanocrystals for Fluorescence Detection of Trace TNT Explosive. <i>Analytical Chemistry</i> , 2008, 80, 3458-3465.	3.2	346
6	Rare-Earth Doping in Nanostructured Inorganic Materials. <i>Chemical Reviews</i> , 2022, 122, 5519-5603.	23.0	338
7	Defects engineering for high-performance perovskite solar cells. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	334
8	The Role of Chlorine in the Formation Process of $\text{CH}_3\text{NH}_3\text{Pb}_3\text{Cl}_x$ Perovskite. <i>Advanced Functional Materials</i> , 2014, 24, 7102-7108.	7.8	294
9	$\text{HPbI}_3$ : A New Precursor Compound for Highly Efficient Solution-Processed Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2015, 25, 1120-1126.	7.8	293
10	Heteroepitaxial Growth of High-Index-Faceted Palladium Nanoshells and Their Catalytic Performance. <i>Journal of the American Chemical Society</i> , 2011, 133, 1106-1111.	6.6	287
11	Red phosphorus: An elemental photocatalyst for hydrogen formation from water. <i>Applied Catalysis B: Environmental</i> , 2012, 111-112, 409-414.	10.8	265
12	Plasmon-enhanced chemical reactions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5790.	5.2	257
13	Long Electron-Hole Diffusion Length in High-Quality Lead-Free Double Perovskite Films. <i>Advanced Materials</i> , 2018, 30, e1706246.	11.1	242
14	Organic Cation-Dependent Degradation Mechanism of Organotin Halide Perovskites. <i>Advanced Functional Materials</i> , 2016, 26, 3417-3423.	7.8	229
15	Porous Single-Crystalline Palladium Nanoparticles with High Catalytic Activities. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4872-4876.	7.2	206
16	Facile synthesis of size-controllable monodispersed ferrite nanospheres. <i>Journal of Materials Chemistry</i> , 2010, 20, 5086.	6.7	197
17	Synthesis of Biocompatible, Mesoporous $\text{Fe}_3\text{O}_4$ Nano/Microspheres with Large Surface Area for Magnetic Resonance Imaging and Therapeutic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 237-244.	4.0	197
18	Photoexcitation dynamics in solution-processed formamidinium lead iodide perovskite thin films for solar cell applications. <i>Light: Science and Applications</i> , 2016, 5, e16056-e16056.	7.7	194

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19	Benzylamine-Treated Wide-Bandgap Perovskite with High Thermal-Photostability and Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1701048.	10.2	188
20	NaYF <sub>4</sub> :Yb,Tm/CdS composite as a novel near-infrared-driven photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2010, 100, 433-439.	10.8	165
21	One-pot synthesis of In <sub>2</sub> S <sub>3</sub> nanosheets/graphene composites with enhanced visible-light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2013, 129, 80-88.	10.8	145
22	Anisotropic Overgrowth of Metal Heterostructures Induced by a Site-Selective Silica Coating. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10344-10348.	7.2	139
23	Porous Pd nanoparticles with high photothermal conversion efficiency for efficient ablation of cancer cells. <i>Nanoscale</i> , 2014, 6, 4345-4351.	2.8	139
24	A NIR-driven photocatalyst based on $\text{In}_2\text{S}_3\text{-NaYF}_4\text{:Yb,Tm@TiO}_2$ core-shell structure supported on reduced graphene oxide. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 184-192.	10.8	126
25	Ultrasound, pH, and Magnetically Responsive Crown-Ether-Coated Core/Shell Nanoparticles as Drug Encapsulation and Release Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 1566-1574.	4.0	122
26	Thermochromic Lead-Free Halide Double Perovskites. <i>Advanced Functional Materials</i> , 2019, 29, 1807375.	7.8	120
27	Metal Nanocrystal-Embedded Hollow Mesoporous TiO <sub>2</sub> and ZrO <sub>2</sub> Microspheres Prepared with Polystyrene Nanospheres as Carriers and Templates. <i>Advanced Functional Materials</i> , 2013, 23, 2137-2144.	7.8	112
28	Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. <i>Science Advances</i> , 2021, 7, .	4.7	98
29	Heteroepitaxial Growth of Core-Shell and Core-Multishell Nanocrystals Composed of Palladium and Gold. <i>Small</i> , 2010, 6, 2566-2575.	5.2	94
30	Plasmonic Percolation: Plasmon-Manifested Dielectric-to-Metal Transition. <i>ACS Nano</i> , 2012, 6, 7162-7171.	7.3	89
31	Green synthesis of a self-assembled rutile mesocrystalline photocatalyst. <i>CrystEngComm</i> , 2010, 12, 1759.	1.3	84
32	Lead-Free Halide Double Perovskite Cs <sub>2</sub> AgBiBr <sub>6</sub> with Decreased Band Gap. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15191-15194.	7.2	80
33	Hierarchical P/YPO <sub>4</sub> microsphere for photocatalytic hydrogen production from water under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2012, 119-120, 267-272.	10.8	79
34	Semiconductor/biomolecular composites for solar energy applications. <i>Energy and Environmental Science</i> , 2011, 4, 100-113.	15.6	75
35	Textured CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> thin film with enhanced stability for high performance perovskite solar cells. <i>Nano Energy</i> , 2017, 33, 485-496.	8.2	74
36	Induced Crystallization of Rubrene in Thin-Film Transistors. <i>Advanced Materials</i> , 2010, 22, 3242-3246.	11.1	67

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37	Photoluminescence Enhancement in Formamidinium Lead Iodide Thin Films. <i>Advanced Functional Materials</i> , 2016, 26, 4653-4659.	7.8	61
38	Copolyptide-doped polyaniline nanofibers for electrochemical detection of ultratrace trinitrotoluene. <i>Talanta</i> , 2009, 79, 376-382.	2.9	56
39	Hierarchical core/shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @ $\gamma$ -AlOOH@Au micro/nanoflowers for protein immobilization. <i>Chemical Communications</i> , 2011, 47, 2514.	2.2	56
40	Porous PbI <sub>2</sub> films for the fabrication of efficient, stable perovskite solar cells via sequential deposition. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10223-10230.	5.2	56
41	Near-Infrared Light-Responsive Cu-Doped Cs <sub>2</sub> AgBiBr <sub>6</sub> . <i>Advanced Functional Materials</i> , 2020, 30, 2005521.	7.8	56
42	Composition-Dependent Light-Induced Dipole Moment Change in Organometal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1253-1259.	1.5	53
43	Photocytotoxicity and Magnetic Relaxivity Responses of Dual-Porous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> @meso-SiO <sub>2</sub> Microspheres. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 2033-2040.	4.0	51
44	Pt <sub>3</sub> Co Concave Nanocubes: Synthesis, Formation Understanding, and Enhanced Catalytic Activity toward Hydrogenation of Styrene. <i>Chemistry - A European Journal</i> , 2014, 20, 1753-1759.	1.7	37
45	Lead-Free Halide Double Perovskite Cs <sub>2</sub> AgBiBr <sub>6</sub> with Decreased Band Gap. <i>Angewandte Chemie</i> , 2020, 132, 15303-15306.	1.6	34
46	The atomic-level structure of bandgap engineered double perovskite alloys Cs <sub>2</sub> AgIn <sub>1-x</sub> Fe <sub>x</sub> Cl <sub>6</sub> . <i>Chemical Science</i> , 2021, 12, 1730-1735.	3.7	34
47	Efficient perovskite solar cells enabled by ion-modulated grain boundary passivation with a fill factor exceeding 84%. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22359-22365.	5.2	33
48	Hexagonal tungsten trioxide nanorods as a rapid adsorbent for methylene blue. <i>Separation and Purification Technology</i> , 2012, 91, 103-107.	3.9	32
49	Loading Metal Nanostructures on Cotton Fabrics as Recyclable Catalysts. <i>Small</i> , 2013, 9, 1003-1007.	5.2	29
50	Distribution of bromine in mixed iodide-bromide organolead perovskites and its impact on photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16191-16197.	5.2	29
51	Growth of single-crystalline SnO <sub>2</sub> nanocubes via a hydrothermal route. <i>CrystEngComm</i> , 2010, 12, 341-343.	1.3	28
52	Selective Heteroepitaxial Nanocrystal Growth of Rare Earth Fluorides on Sodium Chloride: Synthesis and Density Functional Calculations. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8796-8799.	7.2	28
53	Carrier-Activated Polarization in Organometal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2536-2541.	1.5	27
54	WO <sub>3</sub> /TiO <sub>2</sub> microstructures for enhanced photocatalytic oxidation. <i>Separation and Purification Technology</i> , 2012, 91, 67-72.	3.9	26

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55	Strongly Coupled Excitonic States in H-Aggregated Single Crystalline Nanoparticles of 2,5-Bis(4-methoxybenzylidene) Cyclopentanone. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2837-2841.	1.2	25
56	Application of two-dimensional materials in perovskite solar cells: recent progress, challenges, and prospective solutions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14065-14092.	2.7	24
57	Anisotropic Overgrowth of Metal Heterostructures Induced by a Site-Selective Silica Coating. <i>Angewandte Chemie</i> , 2013, 125, 10534-10538.	1.6	21
58	Pulsed Terahertz Emission from Solution-Processed Lead Iodide Perovskite Films. <i>ACS Photonics</i> , 2019, 6, 1175-1181.	3.2	21
59	Recent advancements and future insight of lead-free non-toxic perovskite solar cells for sustainable and clean energy production: A review. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102433.	1.7	20
60	Selective fluorescence response and magnetic separation probe for 2,4,6-trinitrotoluene based on iron oxide magnetic nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4905-4912.	1.9	17
61	Fabrication of well-defined electromagnetic Fe <sub>3</sub> O <sub>4</sub> /polyaniline hollow microspheres and their application in Pb <sup>2+</sup> uptake. <i>Polymer Chemistry</i> , 2014, 5, 4332-4338.	1.9	11
62	Efficient Stabilization and Passivation for Low-Temperature-Processed <sup>3</sup> -CsPbI <sub>3</sub> Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 18784-18791.	4.0	11
63	Improving the efficiency and stability of tin-based perovskite solar cells using anilinium hypophosphite additive. <i>New Journal of Chemistry</i> , 2021, 45, 8092-8100.	1.4	10
64	Temperature-Insensitive Efficient Inorganic Perovskite Photovoltaics by Bulk Heterojunctions. <i>Advanced Materials</i> , 2022, , 2108357.	11.1	9
65	Crystallization Regulation and Morphological Evolution for HTM-free Tin-Lead (1.28eV) Alloyed Perovskite Solar Cells. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	8
66	Fundamentals of Solar Cells and Light-Emitting Diodes. , 2019, , 1-35.		4
67	Unusual thermal transport behavior in self-assembled fullerene nanorods. <i>RSC Advances</i> , 2016, 6, 67509-67513.	1.7	2
68	Optoelectronic property refinement of FASnI <sub>3</sub> films for photovoltaic application. <i>Materials Letters</i> , 2021, 300, 130099.	1.3	2
69	Functional Thin Films for Perovskite Solar Cells. <i>Coatings</i> , 2022, 12, 952.	1.2	0