# Feng Wang

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 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 | Crystallization Regulation and Morphological Evolution for HTMâ€free Tinâ€Lead (1.28eV) Alloyed Perovskite Solar Cells. Energy and Environmental Materials, 2023, 6, . | 7.3 | 8 |
| 2 | Temperatureâ€Insensitive Efficient Inorganic Perovskite Photovoltaics by Bulk Heterojunctions. Advanced Materials, 2022, , 2108357. | 11.1 | 9 |
| 3 | Rare-Earth Doping in Nanostructured Inorganic Materials. Chemical Reviews, 2022, 122, 5519-5603. | 23.0 | 338 |
| 4 | Recent advancements and future insight of lead-free non-toxic perovskite solar cells for sustainable and clean energy production: A review. Sustainable Energy Technologies and Assessments, 2022, 53, 102433. | 1.7 | 20 |
| 5 | Functional Thin Films for Perovskite Solar Cells. Coatings, 2022, 12, 952. | 1.2 | 0 |
| 6 | The atomic-level structure of bandgap engineered double perovskite alloys Cs<sub>2</sub>AgIn<sub>1â^'x</sub>Fe<sub>x</sub>Cl<sub>6</sub>. Chemical Science, 2021, 12, 1730-1735. | 3.7 | 34 |
| 7 | Improving the efficiency and stability of tin-based perovskite solar cells using anilinium hypophosphite additive. New Journal of Chemistry, 2021, 45, 8092-8100. | 1.4 | 10 |
| 8 | Strong self-trapping by deformation potential limits photovoltaic performance in bismuth double perovskite. Science Advances, 2021, 7, . | 4.7 | 98 |
| 9 | Efficient Stabilization and Passivation for Low-Temperature-Processed Î³-CsPbI3 Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 18784-18791. | 4.0 | 11 |
| 10 | Optoelectronic property refinement of FASnI3 films for photovoltaic application. Materials Letters, 2021, 300, 130099. | 1.3 | 2 |
| 11 | Application of two-dimensional materials in perovskite solar cells: recent progress, challenges, and prospective solutions. Journal of Materials Chemistry C, 2021, 9, 14065-14092. | 2.7 | 24 |
| 12 | Nearâ€Infrared Lightâ€Responsive Cuâ€Doped Cs<sub>2</sub>AgBiBr<sub>6</sub>. Advanced Functional Materials, 2020, 30, 2005521. | 7.8 | 56 |
| 13 | Leadâ€Free Halide Double Perovskite Cs<sub>2</sub>AgBiBr<sub>6</sub> with Decreased Band Gap. Angewandte Chemie - International Edition, 2020, 59, 15191-15194. | 7.2 | 80 |
| 14 | Leadâ€Free Halide Double Perovskite Cs<sub>2</sub>AgBiBr<sub>6</sub> with Decreased Band Gap. Angewandte Chemie, 2020, 132, 15303-15306. | 1.6 | 34 |
| 15 | Efficient perovskite solar cells enabled by ion-modulated grain boundary passivation with a fill factor exceeding 84%. Journal of Materials Chemistry A, 2019, 7, 22359-22365. | 5.2 | 33 |
| 16 | Thermochromic Leadâ€Free Halide Double Perovskites. Advanced Functional Materials, 2019, 29, 1807375. | 7.8 | 120 |
| 17 | Fundamentals of Solar Cells and Light-Emitting Diodes. , 2019, , 1-35. | | 4 |
| 18 | Pulsed Terahertz Emission from Solution-Processed Lead Iodide Perovskite Films. ACS Photonics, 2019, 6, 1175-1181. | 3.2 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Long Electronâ€“Hole Diffusion Length in Highâ€Quality Leadâ€Free Double Perovskite Films. Advanced Materials, 2018, 30, e1706246. | 11.1 | 242 |
| 20 | Defects engineering for high-performance perovskite solar cells. Npj Flexible Electronics, 2018, 2, . | 5.1 | 334 |
| 21 | Textured CH3NH3PbI3 thin film with enhanced stability for high performance perovskite solar cells. Nano Energy, 2017, 33, 485-496. | 8.2 | 74 |
| 22 | Benzylamineâ€Treated Wideâ€Bandgap Perovskite with High Thermalâ€Photostability and Photovoltaic Performance. Advanced Energy Materials, 2017, 7, 1701048. | 10.2 | 188 |
| 23 | Organic Cationâ€Dependent Degradation Mechanism of Organotin Halide Perovskites. Advanced Functional Materials, 2016, 26, 3417-3423. | 7.8 | 229 |
| 24 | Photoexcitation dynamics in solution-processed formamidinium lead iodide perovskite thin films for solar cell applications. Light: Science and Applications, 2016, 5, e16056-e16056. | 7.7 | 194 |
| 25 | Phenylalkylamine Passivation of Organolead Halide Perovskites Enabling Highâ€Efficiency and Airâ€Stable Photovoltaic Cells. Advanced Materials, 2016, 28, 9986-9992. | 11.1 | 532 |
| 26 | Unusual thermal transport behavior in self-assembled fullerene nanorods. RSC Advances, 2016, 6, 67509-67513. | 1.7 | 2 |
| 27 | Distribution of bromine in mixed iodideâ€“bromide organolead perovskites and its impact on photovoltaic performance. Journal of Materials Chemistry A, 2016, 4, 16191-16197. | 5.2 | 29 |
| 28 | Photoluminescence Enhancement in Formamidinium Lead Iodide Thin Films. Advanced Functional Materials, 2016, 26, 4653-4659. | 7.8 | 61 |
| 29 | Porous PbI<sub>2</sub> films for the fabrication of efficient, stable perovskite solar cells via sequential deposition. Journal of Materials Chemistry A, 2016, 4, 10223-10230. | 5.2 | 56 |
| 30 | Carrier-Activated Polarization in Organometal Halide Perovskites. Journal of Physical Chemistry C, 2016, 120, 2536-2541. | 1.5 | 27 |
| 31 | A NIR-driven photocatalyst based on Î±-NaYF 4 :Yb,Tm@TiO 2 coreâ€“shell structure supported on reduced graphene oxide. Applied Catalysis B: Environmental, 2016, 182, 184-192. | 10.8 | 126 |
| 32 | HPbI<sub>3</sub>: A New Precursor Compound for Highly Efficient Solutionâ€Processed Perovskite Solar Cells. Advanced Functional Materials, 2015, 25, 1120-1126. | 7.8 | 293 |
| 33 | Composition-Dependent Light-Induced Dipole Moment Change in Organometal Halide Perovskites. Journal of Physical Chemistry C, 2015, 119, 1253-1259. | 1.5 | 53 |
| 34 | Pt<sub>3</sub>Co Concave Nanocubes: Synthesis, Formation Understanding, and Enhanced Catalytic Activity toward Hydrogenation of Styrene. Chemistry - A European Journal, 2014, 20, 1753-1759. | 1.7 | 37 |
| 35 | 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. Polymer Chemistry, 2014, 5, 4332-4338. | 1.9 | 11 |
| 36 | Porous Pd nanoparticles with high photothermal conversion efficiency for efficient ablation of cancer cells. Nanoscale, 2014, 6, 4345-4351. | 2.8 | 139 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The Role of Chlorine in the Formation Process of â€œCH<sub>3</sub>NH<sub>3</sub>PbI<sub>3â€“x</sub>Cl<sub>x</sub>â€•Perovskite. Advanced Functional Materials, 2014, 24, 7102-7108. | 7.8 | 294 |
| 38 | Selective fluorescence response and magnetic separation probe for 2,4,6-trinitrotoluene based on iron oxide magnetic nanoparticles. Analytical and Bioanalytical Chemistry, 2013, 405, 4905-4912. | 1.9 | 17 |
| 39 | Anisotropic Overgrowth of Metal Heterostructures Induced by a Siteâ€Selective Silica Coating. Angewandte Chemie - International Edition, 2013, 52, 10344-10348. | 7.2 | 139 |
| 40 | Metal Nanocrystalâ€Embedded Hollow Mesoporous TiO<sub>2</sub> and ZrO<sub>2</sub> Microspheres Prepared with Polystyrene Nanospheres as Carriers and Templates. Advanced Functional Materials, 2013, 23, 2137-2144. | 7.8 | 112 |
| 41 | Loading Metal Nanostructures on Cotton Fabrics as Recyclable Catalysts. Small, 2013, 9, 1003-1007. | 5.2 | 29 |
| 42 | Plasmonic Harvesting of Light Energy for Suzuki Coupling Reactions. Journal of the American Chemical Society, 2013, 135, 5588-5601. | 6.6 | 597 |
| 43 | Plasmon-enhanced chemical reactions. Journal of Materials Chemistry A, 2013, 1, 5790. | 5.2 | 257 |
| 44 | Ultrasound, pH, and Magnetically Responsive Crown-Ether-Coated Core/Shell Nanoparticles as Drug Encapsulation and Release Systems. ACS Applied Materials & Interfaces, 2013, 5, 1566-1574. | 4.0 | 122 |
| 45 | One-pot synthesis of In2S3 nanosheets/graphene composites with enhanced visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2013, 129, 80-88. | 10.8 | 145 |
| 46 | Anisotropic Overgrowth of Metal Heterostructures Induced by a Siteâ€Selective Silica Coating. Angewandte Chemie, 2013, 125, 10534-10538. | 1.6 | 21 |
| 47 | Photocytotoxicity and Magnetic Relaxivity Responses of Dual-Porous Î³-Fe<sub>2</sub>O<sub>3</sub>@meso-SiO<sub>2</sub> Microspheres. ACS Applied Materials & Interfaces, 2012, 4, 2033-2040. | 4.0 | 51 |
| 48 | Plasmonic Percolation: Plasmon-Manifested Dielectric-to-Metal Transition. ACS Nano, 2012, 6, 7162-7171. | 7.3 | 89 |
| 49 | Porous Singleâ€Crystalline Palladium Nanoparticles with High Catalytic Activities. Angewandte Chemie - International Edition, 2012, 51, 4872-4876. | 7.2 | 206 |
| 50 | Selective Heteroepitaxial Nanocrystal Growth of Rare Earth Fluorides on Sodium Chloride: Synthesis and Density Functional Calculations. Angewandte Chemie - International Edition, 2012, 51, 8796-8799. | 7.2 | 28 |
| 51 | Red phosphorus: An elemental photocatalyst for hydrogen formation from water. Applied Catalysis B: Environmental, 2012, 111-112, 409-414. | 10.8 | 265 |
| 52 | Hierarchical P/YPO4 microsphere for photocatalytic hydrogen production from water under visible light irradiation. Applied Catalysis B: Environmental, 2012, 119-120, 267-272. | 10.8 | 79 |
| 53 | WO3/TiO2 microstructures for enhanced photocatalytic oxidation. Separation and Purification Technology, 2012, 91, 67-72. | 3.9 | 26 |
| 54 | Hexagonal tungsten trioxide nanorods as a rapid adsorbent for methylene blue. Separation and Purification Technology, 2012, 91, 103-107. | 3.9 | 32 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Hierarchical core/shell Fe3O4@SiO2@Î³-AlOOH@Au micro/nanoflowers for protein immobilization. Chemical Communications, 2011, 47, 2514. | 2.2 | 56 |
| 56 | Synthesis of Biocompatible, Mesoporous Fe<sub>3</sub>O<sub>4</sub> Nano/Microspheres with Large Surface Area for Magnetic Resonance Imaging and Therapeutic Applications. ACS Applied Materials & Interfaces, 2011, 3, 237-244. | 4.0 | 197 |
| 57 | Heteroepitaxial Growth of High-Index-Faceted Palladium Nanoshells and Their Catalytic Performance. Journal of the American Chemical Society, 2011, 133, 1106-1111. | 6.6 | 287 |
| 58 | Semiconductor/biomolecular composites for solar energy applications. Energy and Environmental Science, 2011, 4, 100-113. | 15.6 | 75 |
| 59 | Facile synthesis of size-controllable monodispersed ferrite nanospheres. Journal of Materials Chemistry, 2010, 20, 5086. | 6.7 | 197 |
| 60 | Induced Crystallization of Rubrene in Thinâ€Film Transistors. Advanced Materials, 2010, 22, 3242-3246. | 11.1 | 67 |
| 61 | NaYF4:Yb,Tm/CdS composite as a novel near-infrared-driven photocatalyst. Applied Catalysis B: Environmental, 2010, 100, 433-439. | 10.8 | 165 |
| 62 | Heteroepitaxial Growth of Coreâ€“Shell and Coreâ€“Multishell Nanocrystals Composed of Palladium and Gold. Small, 2010, 6, 2566-2575. | 5.2 | 94 |
| 63 | Green synthesis of a self-assembled rutile mesocrystalline photocatalyst. CrystEngComm, 2010, 12, 1759. | 1.3 | 84 |
| 64 | Growth of single-crystalline SnO<sub>2</sub>nanocubes via a hydrothermal route. CrystEngComm, 2010, 12, 341-343. | 1.3 | 28 |
| 65 | Growth of Tetrahexahedral Gold Nanocrystals with High-Index Facets. Journal of the American Chemical Society, 2009, 131, 16350-16351. | 6.6 | 357 |
| 66 | Copolypeptide-doped polyaniline nanofibers for electrochemical detection of ultratrace trinitrotoluene. Talanta, 2009, 79, 376-382. | 2.9 | 56 |
| 67 | Amine-Capped ZnSâ¯Mn<sup>2+</sup> Nanocrystals for Fluorescence Detection of Trace TNT Explosive. Analytical Chemistry, 2008, 80, 3458-3465. | 3.2 | 346 |
| 68 | Strongly Coupled Excitonic States in H-Aggregated Single Crystalline Nanoparticles of 2,5-Bis(4-methoxybenzylidene) Cyclopentanone. Journal of Physical Chemistry B, 2008, 112, 2837-2841. | 1.2 | 25 |
| 69 | General Properties of Local Plasmons in Metal Nanostructures. Physical Review Letters, 2006, 97, 206806. | 2.9 | 446 |