Huilin Li

List of Publications by Year
in descending order

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36 papers	1,688 citations	331670 21 h-index	345221 36 g-index
36 all docs	36 docs citations	36 times ranked	2388 citing authors

#	Article	IF	Citations
1	Perovskite Solar Cells Employing a PbSO₄(PbO)₄ Quantum Dot-Doped Spiro-OMeTAD Hole Transport Layer with an Efficiency over 22%. ACS Applied Materials & Interfaces, 2022, 14, 2989-2999.	8.0	19
2	Toward highâ€efficiency stable 2D/3D perovskite solar cells by incorporating multifunctional CNT:TiO₂ additives into 3D perovskite layer. EcoMat, 2022, 4, e12166.	11.9	31
3	Effects of the incorporation amounts of CdS and Cd(SCN2H4)2Cl2 on the performance of perovskite solar cells. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 283-291.	4.9	16
4	Strategies for highâ€performance perovskite solar cells from materials, film engineering to carrier dynamics and photon management. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	17.3	27
5	Multifunctional <scp>CNT</scp>:<scp>TiO₂</scp> additives in <scp>spiroâ€OMeTAD</scp> layer for highly efficient and stable perovskite solar cells. EcoMat, 2021, 3, e12099.	11.9	53
6	Photoferroelectric perovskite solar cells: Principles, advances and insights. Nano Today, 2021, 37, 101062.	11.9	54
7	Effect of (CH₃)₂Sn(COOH)₂ Electron Transport Layer Thickness on Device Performance in n-i-p Planar Heterojunction Perovskite Solar Cells. Journal of Physical Chemistry C, 2021, 125, 7552-7559.	3.1	7
8	Spiroâ€OMeTAD:Sb₂S₃ Hole Transport Layer with Triple Functions of Overcoming Lithium Salt Aggregation, Longâ€Term High Conductivity, and Defect Passivation for Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100622.	5.8	30
9	Defect Passivation with Metal Cations toward Efficient and Stable Perovskite Solar Cells Exceeding 22.7% Efficiency. ACS Applied Energy Materials, 2021, 4, 11144-11150.	5.1	9
10	Nearâ€Infraredâ€Irradiationâ€Mediated Synaptic Behavior from Tunable Chargeâ€Trapping Dynamics. Advanced Electronic Materials, 2020, 6, 1900765.	5.1	37
11	A self-powered artificial retina perception system for image preprocessing based on photovoltaic devices and memristive arrays. Nano Energy, 2020, 78, 105246.	16.0	91
12	Ruâ€Doping Enhanced Electrocatalysis of Metalâ€“Organic Framework Nanosheets toward Overall Water Splitting. Chemistry - A European Journal, 2020, 26, 17091-17096.	3.3	51
13	Artificial Synapses: Nearâ€Infraredâ€Irradiationâ€Mediated Synaptic Behavior from Tunable Chargeâ€Trapping Dynamics (Adv. Electron. Mater. 2/2020). Advanced Electronic Materials, 2020, 6, 2070007.	5.1	1
14	Ferroelectric polymers for nonâ€volatile memory devices: a review. Polymer International, 2020, 69, 533-544.	3.1	62
15	Tannic Acid-Mediated In Situ Controlled Assembly of NiFe Alloy Nanoparticles on Pristine Graphene as a Superior Oxygen Evolution Catalyst. ACS Applied Energy Materials, 2020, 3, 3966-3977.	5.1	29
16	Fully photon modulated heterostructure for neuromorphic computing. Nano Energy, 2019, 65, 104000.	16.0	110
17	Graphitic carbon nitride nanosheets for solution processed non-volatile memory devices. Journal of Materials Chemistry C, 2019, 7, 10203-10210.	5.5	24
18	Pristineâ€Grapheneâ€Supported Nitrogenâ€Doped Carbon Selfâ€Assembled from Glucaminiumâ€Based Ionic Liquids as Metalâ€Free Catalyst for Oxygen Evolution. ChemSusChem, 2019, 12, 5041-5050.	6.8	25

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19	A solution processed metalâ€“oxo cluster for rewritable resistive memory devices. Journal of Materials Chemistry C, 2019, 7, 843-852.	5.5	18
20	Ultrasensitive and Stable Au Dimerâ€Based Colorimetric Sensors Using the Dynamically Tunable Gapâ€Dependent Plasmonic Coupling Optical Properties. Advanced Functional Materials, 2018, 28, 1707392.	14.9	48
21	Periodic Porous Alloyed Auâ€“Ag Nanosphere Arrays and Their Highly Sensitive SERS Performance with Good Reproducibility and High Density of Hotspots. ACS Applied Materials & Interfaces, 2018, 10, 9792-9801.	8.0	138
22	Physical process-aided fabrication of periodic Auâ€“M (M = Ag, Cu, Agâ€“Cu) alloyed nanoparticle arrays with tunable localized surface plasmon resonance and diffraction peaks. RSC Advances, 2018, 8, 9134-9140.	3.6	18
23	Bionic PDMS film with hybrid superhydrophilic/superhydrophobic arrays for water harvest. Surface Innovations, 2018, 6, 141-149.	2.3	15
24	Strong Electronic Interaction in Dualâ€Cationâ€Incorporated NiSe₂ Nanosheets with Lattice Distortion for Highly Efficient Overall Water Splitting. Advanced Materials, 2018, 30, e1802121.	21.0	361
25	Highly efficient production of ordered wafer-scale gold nanoparticle arrays film by simple heat treatment based on colloidal monolayer. International Journal of Modern Physics B, 2018, 32, 1850192.	2.0	2
26	Gold nanoshell arrays-based visualized sensors of pH: Facile fabrication and high diffraction intensity. Journal of Materials Research, 2017, 32, 717-725.	2.6	8
27	Surface enhanced Raman scattering properties of dynamically tunable nanogaps between Au nanoparticles self-assembled on hydrogel microspheres controlled by pH. Journal of Colloid and Interface Science, 2017, 505, 467-475.	9.4	23
28	Functionalized periodic Au@MOFs nanoparticle arrays as biosensors for dual-channel detection through the complementary effect of SPR and diffraction peaks. Nano Research, 2017, 10, 2257-2270.	10.4	44
29	Controlled synthesis of sponge-like porous Auâ€“Ag alloy nanocubes for surface-enhanced Raman scattering properties. Journal of Materials Chemistry C, 2017, 5, 11039-11045.	5.5	45
30	Rapid and Efficient Self-Assembly of Au@ZnO Coreâ€“Shell Nanoparticle Arrays with an Enhanced and Tunable Plasmonic Absorption for Photoelectrochemical Hydrogen Generation. ACS Applied Materials & Interfaces, 2017, 9, 31897-31906.	8.0	53
31	Mo doped Ni₂P nanowire arrays: an efficient electrocatalyst for the hydrogen evolution reaction with enhanced activity at all pH values. Nanoscale, 2017, 9, 16674-16679.	5.6	179
32	Optical sensing properties of Au nanoparticle/hydrogel composite microbeads using droplet microfluidics. Nanotechnology, 2017, 28, 405502.	2.6	8
33	Periodic nanostructured Au arrays on an Si electrode for high-performance electrochemical detection of hydrogen peroxide without an enzyme. Journal of Materials Chemistry C, 2016, 4, 9864-9871.	5.5	21
34	Effects of NaSbO3 on phase structure and electrical properties of K0.5Na0.5NbO3â€“LiTaO3â€“NaSbO3 piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2013, 24, 855-860.	2.2	8
35	Effects of NaTaO3 additions on structure and electrical properties of K0.5Na0.5NbO3â€“Bi0.5Na0.5TiO3â€“LiSbO3 piezoelectric ceramics. Ceramics International, 2011, 37, 1959-1965.	4.8	7
36	Crystal structure and properties of K0.5Na0.5NbO3â€“Bi0.5Na0.5TiO3â€“LiSbO3 lead-free piezoelectric ceramics. Journal of Alloys and Compounds, 2010, 506, 407-411.	5.5	16