

Di-Yan Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8657577/publications.pdf>

Version: 2024-02-01

62
papers

8,467
citations

126907

33
h-index

114465

63
g-index

65
all docs

65
docs citations

65
times ranked

12416
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilized High-Membered and Phase-Pure 2D All Inorganic Ruddlesden-Popper Halide Perovskites Nanocrystals as Photocatalysts for the CO ₂ Reduction Reaction. <i>Small</i> , 2022, 18, e2107881.	10.0	7
2	Electrochemical reactions towards the formation of heteroatomic bonds beyond CO ₂ and N ₂ reduction. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3283-3303.	4.9	7
3	Accelerated Formation of 2D Ruddlesden-Popper Perovskite Thin Films by Lewis Bases for High Efficiency Solar Cell Applications. <i>Nanomaterials</i> , 2022, 12, 1816.	4.1	5
4	Studies of high-membered two-dimensional Ruddlesden-Popper Cs ₇ Pb ₆ I ₁₉ perovskite nanosheets <i>via</i> kinetically controlled reactions. <i>Materials Horizons</i> , 2022, 9, 2433-2442.	12.2	5
5	Enhanced N ₂ affinity of 1T-MoS ₂ with a unique pseudo-six-membered ring consisting of Na-Li-S-Mo-Mo for high ambient ammonia electrosynthesis performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1230-1239.	10.3	44
6	Strong Excitonic Magneto-Optic Effects in Two-Dimensional Organic-Inorganic Hybrid Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10279-10286.	8.0	11
7	Phase-Dependent MoS ₂ Nanoflowers for Light-Driven Antibacterial Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7904-7912.	6.7	77
8	Electrocatalytic Reduction of NO ₃ ⁻ to Ultrapure Ammonia on {200} Facet Dominant Cu Nanodendrites with High Conversion Faradaic Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8121-8128.	4.6	39
9	Facile Fabrication of Highly Stable and Wavelength-Tunable Tin Based Perovskite Materials with Enhanced Quantum Yield via the Cation Transformation Reaction. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8763-8769.	4.6	10
10	Cost-Effective 1T-MoS ₂ Grown on Graphite Cathode Materials for High-Temperature Rechargeable Aluminum Ion Batteries and Hydrogen Evolution in Water Splitting. <i>Catalysts</i> , 2021, 11, 1547.	3.5	4
11	Real-Time Observation of Anion Reaction in High Performance Al Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2572-2580.	8.0	30
12	Challenges and prospects of polyatomic ions™ intercalation in the graphite layer for energy storage applications. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24842-24855.	2.8	18
13	<p>>High UV-Vis-NIR Light-Induced Antibacterial Activity by Heterostructured TiO₂-FeS₂ Nanocomposites<p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 8911-8920.	6.7	37
14	Unravelling the origin of the photocarrier dynamics of fullerene-derivative passivation of SnO ₂ electron transporters in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23607-23616.	10.3	30
15	Exploration and Investigation of Periodic Elements for Electrocatalytic Nitrogen Reduction. <i>Small</i> , 2020, 16, e2002885.	10.0	88
16	Quantum-assisted photoelectric gain effects in perovskite solar cells. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	12
17	A Quinone-Based Electrode for High-Performance Rechargeable Aluminum-Ion Batteries with a Low-Cost AlCl ₃ /Urea Ionic Liquid Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25853-25860.	8.0	55
18	<i>In situ</i> Scanning Electron Microscopy Observation of MoS ₂ Nanosheets during Lithiation in Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7066-7072.	5.1	20

#	ARTICLE	IF	CITATIONS
19	Light-Activated Heterostructured Nanomaterials for Antibacterial Applications. <i>Nanomaterials</i> , 2020, 10, 643.	4.1	45
20	Water Splitting: Creation of 3D Textured Graphene/Si Schottky Junction Photocathode for Enhanced Photoelectrochemical Efficiency and Stability (<i>Adv. Energy Mater.</i> 29/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970115.	19.5	4
21	Unveiling the Nanoparticle-Seeded Catalytic Nucleation Kinetics of Perovskite Solar Cells by Time-Resolved GIXS. <i>Advanced Functional Materials</i> , 2019, 29, 1902582.	14.9	27
22	Photoactive Earth-Abundant Iron Pyrite Catalysts for Electrocatalytic Nitrogen Reduction Reaction. <i>Small</i> , 2019, 15, e1904723.	10.0	33
23	Creation of 3D Textured Graphene/Si Schottky Junction Photocathode for Enhanced Photoelectrochemical Efficiency and Stability. <i>Advanced Energy Materials</i> , 2019, 9, 1901022.	19.5	21
24	Plasmon-Enhanced Hydrogen Evolution on Specific Facet of Silver Nanocrystals. <i>Chemistry of Materials</i> , 2019, 31, 3722-3728.	6.7	33
25	Osteoporosis risk assessment using multilayered gold-nanoparticle thin film via SALDI-MS measurement. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 2793-2802.	3.7	27
26	Insights into dynamic molecular intercalation mechanism for Al C battery by operando synchrotron X-ray techniques. <i>Carbon</i> , 2019, 146, 528-534.	10.3	42
27	Nitrogen Reduction: Photoactive Earth-Abundant Iron Pyrite Catalysts for Electrocatalytic Nitrogen Reduction Reaction (<i>Small</i> 49/2019). <i>Small</i> , 2019, 15, 1970265.	10.0	1
28	Flexible Hybrid Zn-Ag/Air Battery with Long Cycle Life. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2860-2866.	6.7	28
29	Enhanced Luminescence and Stability of Cesium Lead Halide Perovskite CsPbX ₃ Nanocrystals by Cu ²⁺ -Assisted Anion Exchange Reactions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2353-2360.	3.1	65
30	Extended visible to near-infrared harvesting of earth-abundant FeS ₂ -TiO ₂ heterostructures for highly active photocatalytic hydrogen evolution. <i>Green Chemistry</i> , 2018, 20, 1640-1647.	9.0	75
31	Quantitative Analysis of Glucose Metabolic Cleavage in Glucose Transporters Overexpressed Cancer Cells by Target-Specific Fluorescent Gold Nanoclusters. <i>Analytical Chemistry</i> , 2018, 90, 3974-3980.	6.5	34
32	Facile synthesis of two-dimensional Ruddlesden-Popper perovskite quantum dots with fine-tunable optical properties. <i>Nanoscale Research Letters</i> , 2018, 13, 247.	5.7	55
33	Advanced rechargeable aluminium ion battery with a high-quality natural graphite cathode. <i>Nature Communications</i> , 2017, 8, 14283.	12.8	453
34	Improving Hydrogen Evolution Activity of Earth-Abundant Cobalt-Doped Iron Pyrite Catalysts by Surface Modification with Phosphide. <i>Small</i> , 2017, 13, 1603356.	10.0	68
35	Freestanding Cathode Electrode Design for High-Performance Sodium Dual-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24463-24469.	3.1	64
36	Highly oriented Langmuir-Blodgett film of silver cuboctahedra as an effective matrix-free sample plate for surface-assisted laser desorption/ionization mass spectrometry. <i>Nanoscale</i> , 2017, 9, 11119-11125.	5.6	32

#	ARTICLE	IF	CITATIONS
37	Iron Pyrite/Titanium Dioxide Photoanode for Extended Near Infrared Light Harvesting in a Photoelectrochemical Cell. <i>Scientific Reports</i> , 2016, 6, 20397.	3.3	27
38	3D Graphitic Foams Derived from Chloroaluminate Anion Intercalation for Ultrafast Aluminum-Ion Battery. <i>Advanced Materials</i> , 2016, 28, 9218-9222.	21.0	302
39	Chemical doping of a core-shell silicon nanoparticles@polyaniline nanocomposite for the performance enhancement of a lithium ion battery anode. <i>Nanoscale</i> , 2016, 8, 1280-1287.	5.6	69
40	Intermixing-seeded growth for high-performance planar heterojunction perovskite solar cells assisted by precursor-capped nanoparticles. <i>Energy and Environmental Science</i> , 2016, 9, 1282-1289.	30.8	157
41	A mini review on nickel-based electrocatalysts for alkaline hydrogen evolution reaction. <i>Nano Research</i> , 2016, 9, 28-46.	10.4	773
42	Fluorescence-Guided Probes of Aptamer-Targeted Gold Nanoparticles with Computed Tomography Imaging Accesses for in Vivo Tumor Resection. <i>Scientific Reports</i> , 2015, 5, 15675.	3.3	73
43	Blending Cr ₂ O ₃ into a NiO-Ni Electrocatalyst for Sustained Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11989-11993.	13.8	172
44	Highly Active and Stable Hybrid Catalyst of Cobalt-Doped FeS ₂ Nanosheets@Carbon Nanotubes for Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 1587-1592.	13.7	800
45	Graphene-Based Integrated Photovoltaic Energy Harvesting/Storage Device. <i>Small</i> , 2015, 11, 2929-2937.	10.0	90
46	Highly stable cycling of a lead oxide/copper nanocomposite as an anode material in lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 50245-50252.	3.6	22
47	An ultrafast rechargeable aluminium-ion battery. <i>Nature</i> , 2015, 520, 324-328.	27.8	1,970
48	Layer-by-layer thin film of reduced graphene oxide and gold nanoparticles as an effective sample plate in laser-induced desorption/ionization mass spectrometry. <i>Analytica Chimica Acta</i> , 2014, 809, 97-103.	5.4	28
49	Nanoscale nickel oxide/nickel heterostructures for active hydrogen evolution electrocatalysis. <i>Nature Communications</i> , 2014, 5, 4695.	12.8	1,413
50	Low operation voltage macromolecular composite memory assisted by graphene nanoflakes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 552-559.	5.5	46
51	Clean Lifting Transfer of Large Area Residual-Free Graphene Films. <i>Advanced Materials</i> , 2013, 25, 4521-4526.	21.0	157
52	FeS ₂ Nanocrystal Ink as a Catalytic Electrode for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6694-6698.	13.8	227
53	Enhanced performance of photodetector and photovoltaic based on carrier reflector and back surface field generated by doped graphene. <i>Applied Physics Letters</i> , 2012, 101, 073906.	3.3	2
54	Simple Replacement Reaction for the Preparation of Ternary Fe _{1-x} PtRu _x Nanocrystals with Superior Catalytic Activity in Methanol Oxidation Reaction. <i>Journal of the American Chemical Society</i> , 2012, 134, 10011-10020.	13.7	111

#	ARTICLE	IF	CITATIONS
55	Solution-processable Pyrite FeS ₂ Nanocrystals for the Fabrication of Heterojunction Photodiodes with Visible to NIR Photodetection. <i>Advanced Materials</i> , 2012, 24, 3415-3420.	21.0	112
56	Solution processable nanocarbon platform for polymer solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 3521.	30.8	47
57	Enhanced charge extraction in inverted hybrid photovoltaic cells assisted by graphene nanoflakes. <i>Journal of Materials Chemistry</i> , 2011, 21, 17462.	6.7	18
58	Enhanced infrared light harvesting of inorganic nanocrystal photovoltaic and photodetector on graphene electrode. <i>Applied Physics Letters</i> , 2011, 98, 263509.	3.3	20
59	Work function evolution of graphene oxide by utilizing hydrothermal treatment. , 2010, , .		0
60	Extended red light harvesting in a poly(3-hexylthiophene)/iron disulfide nanocrystal hybrid solar cell. <i>Nanotechnology</i> , 2009, 20, 405207.	2.6	91
61	Chemical Transformation from FePt to Fe _{1-x} PtM _x (M = Ru, Ni, Sn) Nanocrystals by a Cation Redox Reaction: X-ray Absorption Spectroscopic Studies. <i>Journal of the American Chemical Society</i> , 2007, 129, 1538-1540.	13.7	41
62	Enhanced Hydrogen Evolution Efficiency Achieved by Atomically Controlled Platinum Deposited on Gold Nanodendrites with High-Index Surfaces. <i>Journal of Materials Chemistry A</i> , 0, , .	10.3	8