

Pei Dong

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

2,442
citations

30
h-index

48
g-index

67
ext. papers

3,172
ext. citations

10.9
avg, IF

5.26
L-index

#	Paper	IF	Citations
61	Liquid metal-tailored gluten network for protein-based e-skin.. <i>Nature Communications</i> , 2022 , 13, 1206	17.4	7
60	Sustainable Generator and in-situ Monitor for Reactive Oxygen Species using Photodynamic Effect of Single-walled Carbon Nanotubes in Ionic Liquids. <i>Materials Today Sustainability</i> , 2022 , 100171	5	0
59	Pt Edge-Doped MoS ₂ : Activating the Active Sites for Maximized Hydrogen Evolution Reaction Performance. <i>Small</i> , 2021 , 17, e2104245	11	2
58	A Growing Appreciation for the Role of LiF in the Solid Electrolyte Interphase. <i>Advanced Energy Materials</i> , 2021 , 11, 2100046	21.8	106
57	Super-elasticity at 4 K of covalently crosslinked polyimide aerogels with negative Poisson's ratio. <i>Nature Communications</i> , 2021 , 12, 4092	17.4	10
56	Zn ²⁺ -Intercalated V ₂ O ₅ ·nH ₂ O derived from V ₂ CTx MXene for hyper-stable zinc-ion storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17994-18005	13	10
55	Direct conversion of natural gases in solid oxide cells: A mini-review. <i>Electrochemistry Communications</i> , 2021 , 128, 107068	5.1	2
54	Hierarchically porous polyimide/TiCT film with stable electromagnetic interference shielding after resisting harsh conditions. <i>Science Advances</i> , 2021 , 7, eabj1663	14.3	25
53	Coordination modulated crystallization and defect passivation in high quality perovskite film for efficient solar cells. <i>Coordination Chemistry Reviews</i> , 2020 , 420, 213408	23.2	26
52	Vortex generation in a finitely extensible nonlinear elastic Peterlin fluid initially at rest. <i>Engineering Reports</i> , 2020 , 2, e12135	1.2	3
51	Etching-Doping Sedimentation Equilibrium Strategy: Accelerating Kinetics on Hollow Rh-Doped CoFe-Layered Double Hydroxides for Water Splitting. <i>Advanced Functional Materials</i> , 2020 , 30, 2003556	15.6	64
50	FIB-Patterned Nano-Supercapacitors: Minimized Size with Ultrahigh Performances. <i>Advanced Materials</i> , 2020 , 32, e1908072	24	11
49	Metal-organic framework-derived ZnMoO ₄ nanosheet arrays for advanced asymmetric supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 3631-3641	2.1	3
48	Engineering Abundant Edge Sites of Bismuth Nanosheets toward Superior Ambient Electrocatalytic Nitrogen Reduction via Topotactic Transformation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2735-2741	8.3	21
47	Precursor-Transformation Strategy Preparation of CuP Nanodots-Decorated CoP Nanowires Hybrid Catalysts for Boosting pH-Universal Electrocatalytic Hydrogen Evolution. <i>Small</i> , 2019 , 15, e1904681	11	19
46	Revisiting the Role of Active Sites for Hydrogen Evolution Reaction through Precise Defect Adjusting. <i>Advanced Functional Materials</i> , 2019 , 29, 1901290	15.6	37
45	Ultrathin MoS ₂ Nanosheets Decorated Hollow CoP Heterostructures for Enhanced Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10105-10111	8.3	27

44	Oxygen Vacancies in Ta ₂ O ₅ Nanorods for Highly Efficient Electrocatalytic N ₂ Reduction to NH ₃ under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9622-9628	8.3	36
43	Amorphous Sn/Crystalline SnS Nanosheets via In Situ Electrochemical Reduction Methodology for Highly Efficient Ambient N Fixation. <i>Small</i> , 2019 , 15, e1902535	11	55
42	Interfacial Engineering for High-Efficiency Nanorod Array-Structured Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33770-33780	9.5	41
41	Sublimation-Vapor Phase Pseudomorphic Transformation of Template-Directed MOFs for Efficient Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019 , 29, 1903875	15.6	28
40	Nesting CoMo Binary Alloy Nanoparticles onto Molybdenum Oxide Nanosheet Arrays for Superior Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9002-9010	9.5	38
39	Carbon-based perovskite solar cells: From single-junction to modules 2019 , 1, 109-123		33
38	An in situ electrochemical oxidation strategy for formation of nanogrid-shaped V ₃ O ₇ ·H ₂ O with enhanced zinc storage properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25262-25267	13	38
37	Graphene-Modified Tin Dioxide for Efficient Planar Perovskite Solar Cells with Enhanced Electron Extraction and Reduced Hysteresis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 666-673	9.5	46
36	Controlled Synthesis of Eutectic NiSe/Ni ₃ Se ₂ Self-Supported on Ni Foam: An Excellent Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701507	4.6	49
35	Large-scale controlled synthesis of porous two-dimensional nanosheets for the hydrogen evolution reaction through a chemical pathway. <i>Nanoscale</i> , 2018 , 10, 6168-6176	7.7	20
34	Dual-Functional Starfish-like P-Doped Co-Ni-S Nanosheets Supported on Nickel Foams with Enhanced Electrochemical Performance and Excellent Stability for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7087-7095	9.5	76
33	Transforming Nickel Hydroxide into 3D Prussian Blue Analogue Array to Obtain Ni ₂ P/Fe ₂ P for Efficient Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018 , 8, 1800484	21.8	150
32	Recent developments of transition metal phosphides as catalysts in the energy conversion field. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23220-23243	13	135
31	Urchin-like CoP with Controlled Manganese Doping toward Efficient Hydrogen Evolution Reaction in Both Acid and Alkaline Solution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15162-15169	8.3	20
30	Template-free solvothermal preparation of ternary FeNi ₂ S ₄ hollow balloons as RuO ₂ -like efficient electrocatalysts for the oxygen evolution reaction with superior stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19417-19424	13	16
29	A general strategy for the functionalization of two-dimensional metal chalcogenides. <i>Nanoscale</i> , 2018 , 10, 10657-10663	7.7	8
28	Surface Tension Components Ratio: An Efficient Parameter for Direct Liquid Phase Exfoliation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9168-9175	9.5	33
27	Correlation between types of defects/vacancies of Bi ₂ S ₃ nanostructures and their transient photocurrent. <i>Nano Research</i> , 2017 , 10, 2405-2414	10	7

26	Simultaneous Preparation and Functionalization of 2D Materials Assisted by Amphiphilic MoS ₂ Nanosheets. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600847	4.6	7
25	Controlled synthesis of Mo-doped Ni ₃ S ₂ nano-rods: an efficient and stable electro-catalyst for water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1595-1602	13	108
24	Anion-exchange engineering of cookie-like BiS/BiMoO heterostructure for enhanced photocatalytic activities and gas-sensing properties. <i>Talanta</i> , 2017 , 165, 44-51	6.2	28
23	Controlled Electrodeposition Synthesis of Co-Ni-P Film as a Flexible and Inexpensive Electrode for Efficient Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31887-31896	9.5	72
22	Integrated Energy Aerogel of N,S-rGO/WSe/NiFe-LDH for Both Energy Conversion and Storage. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32756-32766	9.5	50
21	Cobalt-Doped FeSe ₂ -RGO as Highly Active and Stable Electrocatalysts for Hydrogen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18036-42	9.5	73
20	Construction of three-dimensional CuCo ₂ S ₄ /CNT/graphene nanocomposite for high performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 13456-13460	3.7	45
19	Surface functionalization of two-dimensional metal chalcogenides by Lewis acid-base chemistry. <i>Nature Nanotechnology</i> , 2016 , 11, 465-71	28.7	150
18	Large-scale synthesis of few-layer graphene from magnesium and different carbon sources and its application in dye-sensitized solar cells. <i>Materials and Design</i> , 2016 , 92, 462-470	8.1	16
17	Solid-Liquid Self-Adaptive Polymeric Composite. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2142-7	9.5	5
16	Magnetic Core-Shell to Yolk-Shell Structures in Palladium-Catalyzed Suzuki-Miyaura Reactions: Heterogeneous versus Homogeneous Nature. <i>ChemPlusChem</i> , 2016 , 81, 564-573	2.8	18
15	Surface Tension Components Based Selection of Cosolvents for Efficient Liquid Phase Exfoliation of 2D Materials. <i>Small</i> , 2016 , 12, 2741-9	11	93
14	Interphase Induced Dynamic Self-Stiffening in Graphene-Based Polydimethylsiloxane Nanocomposites. <i>Small</i> , 2016 , 12, 3723-31	11	28
13	Straightforward synthesis of hierarchical Co ₃ O ₄ @CoWO ₄ /rGO core-shell arrays on Ni as hybrid electrodes for asymmetric supercapacitors. <i>Ceramics International</i> , 2016 , 42, 10719-10725	5.1	45
12	Layer-by-layer self-assembly of polyelectrolyte functionalized MoS ₂ nanosheets. <i>Nanoscale</i> , 2016 , 8, 9641-7	7.7	24
11	Novel FeNi ₂ S ₄ /TMD-based ternary composites for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8844-8850	13	32
10	Insight into In Situ Amphiphilic Functionalization of Few-Layered Transition Metal Dichalcogenide Nanosheets. <i>Advanced Materials</i> , 2016 , 28, 8469-8476	24	10
9	Unveil the Size-Dependent Mechanical Behaviors of Individual CNT/SiC Composite Nanofibers by In Situ Tensile Tests in SEM. <i>Small</i> , 2016 , 12, 4486-91	11	15

8	Scalable Transfer of Suspended Two-Dimensional Single Crystals. <i>Nano Letters</i> , 2015 , 15, 5089-97	11.5	33
7	Microstructure and properties of carbon nanosheet/copper composites processed by particle-assisted shear exfoliation. <i>RSC Advances</i> , 2015 , 5, 19321-19328	3.7	20
6	Vertically Aligned Carbon Nanotubes/Graphene Hybrid Electrode as a TCO- and Pt-Free Flexible Cathode for Application in Solar Cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20902-20907	13	41
5	Graphene on Metal Grids as the Transparent Conductive Material for Dye Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25863-25868	3.8	32
4	Recent advances in alternative cathode materials for iodine-free dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 2003	35.4	124
3	High Electrocatalytic Activity of Vertically Aligned Single-Walled Carbon Nanotubes towards Sulfide Redox Shuttles. <i>Scientific Reports</i> , 2012 , 2, 368	4.9	81
2	Vertically aligned single-walled carbon nanotubes as low-cost and high electrocatalytic counter electrode for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3157-61	9.5	82
1	Monolithic Ni-Mo-B Bifunctional Electrode for Large Current Water Splitting. <i>Advanced Functional Materials</i> , 2107308	15.6	5