

Damien Voiry

List of Publications by Year in descending order

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61
papers

22,240
citations

61945

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123376

61
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66
docs citations

66
times ranked

25661
citing authors

#	ARTICLE	IF	CITATIONS
1	High-yield production of mono- or few-layer transition metal dichalcogenide nanosheets by an electrochemical lithium ion intercalation-based exfoliation method. <i>Nature Protocols</i> , 2022, 17, 358-377.	5.5	100
2	3.4% Solar-to-Ammonia Efficiency from Nitrate Using Fe Single Atomic Catalyst Supported on MoS ₂ Nanosheets. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	71
3	Simultaneous Electrochemical Exfoliation and Covalent Functionalization of MoS ₂ Membrane for Ion Sieving. <i>Advanced Materials</i> , 2022, 34, e2201416.	11.1	45
4	Enhancing the CO ₂ -to-CO Conversion from 2D Silver Nanoprisms <i>via</i> Superstructure Assembly. <i>ACS Nano</i> , 2021, 15, 7682-7693.	7.3	35
5	2.6% cm ⁻² Single-Pass CO ₂ -to-CO Conversion Using Ni Single Atoms Supported on Ultra-Thin Carbon Nanosheets in a Flow Electrolyzer. <i>ACS Catalysis</i> , 2021, 11, 12701-12711.	5.5	14
6	Improved electrochemical conversion of CO ₂ to multicarbon products by using molecular doping. <i>Nature Communications</i> , 2021, 12, 7210.	5.8	60
7	Rational Design of Hierarchical, Porous, Co-Supported, N-Doped Carbon Architectures as Electrocatalyst for Oxygen Reduction. <i>ChemSusChem</i> , 2020, 13, 741-748.	3.6	32
8	Highly-efficient electrochemical label-free immunosensor for the detection of ochratoxin A in coffee samples. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127438.	4.0	49
9	Biomimetic electro-oxidation of alkyl sulfides from exfoliated molybdenum disulfide nanosheets. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25053-25060.	5.2	6
10	Single atom is not alone: Metal-support interactions in single-atom catalysis. <i>Materials Today</i> , 2020, 40, 173-192.	8.3	174
11	Investigation of polymer-derived Si(B)-C-N ceramic/reduced graphene oxide composite systems as active catalysts towards the hydrogen evolution reaction. <i>Scientific Reports</i> , 2020, 10, 22003.	1.6	24
12	Disorder-driven two-dimensional quantum phase transitions in Li _x MoS ₂ . <i>2D Materials</i> , 2020, 7, 035013.	2.0	7
13	Single Atomic Vacancy Catalysis. <i>ACS Nano</i> , 2019, 13, 9958-9964.	7.3	111
14	Ultrahigh-current-density niobium disulfide catalysts for hydrogen evolution. <i>Nature Materials</i> , 2019, 18, 1309-1314.	13.3	280
15	Enhanced sieving from exfoliated MoS ₂ membranes via covalent functionalization. <i>Nature Materials</i> , 2019, 18, 1112-1117.	13.3	196
16	Impact of polyelectrolytes on lysozyme properties in colloidal dispersions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 183, 110419.	2.5	2
17	Role of Sulfur Vacancies and Undercoordinated Mo Regions in MoS ₂ Nanosheets toward the Evolution of Hydrogen. <i>ACS Nano</i> , 2019, 13, 6824-6834.	7.3	402
18	Effects Of Structural Phase Transition On Thermoelectric Performance in Lithium-Intercalated Molybdenum Disulfide (Li _x MoS ₂). <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12184-12189.	4.0	31

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19	Low-dimensional catalysts for hydrogen evolution and CO ₂ reduction. Nature Reviews Chemistry, 2018, 2, .	13.8	631
20	Interfacial Interactions as an Electrochemical Tool To Understand Mo-Based Catalysts for the Hydrogen Evolution Reaction. ACS Catalysis, 2018, 8, 828-836.	5.5	34
21	Best Practices for Reporting Electrocatalytic Performance of Nanomaterials. ACS Nano, 2018, 12, 9635-9638.	7.3	537
22	Probing Charge Transfer States in Polymer:Fullerene " MoS ₂ van der Waals Heterostructures. , 2018, , .		1
23	Enzymatic Biodegradability of Pristine and Functionalized Transition Metal Dichalcogenide MoS ₂ Nanosheets. Advanced Functional Materials, 2017, 27, 1605176.	7.8	109
24	Toward point-of-care management of chronic respiratory conditions: Electrochemical sensing of nitrite content in exhaled breath condensate using reduced graphene oxide. Microsystems and Nanoengineering, 2017, 3, 17022.	3.4	60
25	Solution-Processed MoS ₂ /Organolead Trihalide Perovskite Photodetectors. Advanced Materials, 2017, 29, 1603995.	11.1	187
26	Charge Transfer and Enhanced Absorption in MoS ₂ - Organic Heterojunctions Using Plasmonic Metasurfaces. , 2017, , .		0
27	Engineering Chemically Exfoliated Large-Area Two-Dimensional MoS ₂ Nanolayers with Porphyrins for Improved Light Harvesting. ChemPhysChem, 2016, 17, 2854-2862.	1.0	32
28	Chemistry and electronics of single layer MoS ₂ domains from photoelectron spectromicroscopy using laboratory excitation sources. Surface and Interface Analysis, 2016, 48, 465-469.	0.8	10
29	Recent Strategies for Improving the Catalytic Activity of 2D TMD Nanosheets Toward the Hydrogen Evolution Reaction. Advanced Materials, 2016, 28, 6197-6206.	11.1	769
30	Monodisperse Mesoporous Carbon Nanoparticles from Polymer/Silica Self-Aggregates and Their Electrocatalytic Activities. ACS Applied Materials & Interfaces, 2016, 8, 18891-18903.	4.0	36
31	Synthesis and Characterization of ReS ₂ and ReSe ₂ Layered Chalcogenide Single Crystals. Chemistry of Materials, 2016, 28, 3352-3359.	3.2	162
32	Tuning of Structural and Optical Properties of Graphene/ZnO Nanolaminates. Journal of Physical Chemistry C, 2016, 120, 23716-23725.	1.5	75
33	High-quality graphene via microwave reduction of solution-exfoliated graphene oxide. Science, 2016, 353, 1413-1416.	6.0	670
34	Ultrafast Charge Transfer and Enhanced Absorption in MoS ₂ "Organic van der Waals Heterojunctions Using Plasmonic Metasurfaces. ACS Nano, 2016, 10, 9899-9908.	7.3	71
35	The role of electronic coupling between substrate and 2D MoS ₂ nanosheets in electrocatalytic production of hydrogen. Nature Materials, 2016, 15, 1003-1009.	13.3	687
36	Phase-engineered transition-metal dichalcogenides for energy and electronics. MRS Bulletin, 2015, 40, 585-591.	1.7	71

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37	Co ₃ O ₄ nanoparticles/cellulose nanowhiskers-derived amorphous carbon nanoneedles: sustainable materials for supercapacitors and oxygen reduction electrocatalysis. RSC Advances, 2015, 5, 49385-49391.	1.7	32
38	Yeast Cells-Derived Hollow Core/Shell Heteroatom-Doped Carbon Microparticles for Sustainable Electrocatalysis. ACS Applied Materials & Interfaces, 2015, 7, 1978-1986.	4.0	49
39	Copper nanoparticles stabilized by reduced graphene oxide for CO ₂ reduction reaction. Materials for Renewable and Sustainable Energy, 2015, 4, 1.	1.5	68
40	Reductive dismantling and functionalization of carbon nanohorns. Chemical Communications, 2015, 51, 5017-5019.	2.2	18
41	Phase engineering of transition metal dichalcogenides. Chemical Society Reviews, 2015, 44, 2702-2712.	18.7	915
42	Metallic 1T phase MoS ₂ nanosheets as supercapacitor electrode materials. Nature Nanotechnology, 2015, 10, 313-318.	15.6	2,278
43	Catalytic Activity in Lithium-Treated Core-Shell MoO ₃ /MoS ₂ Nanowires. Journal of Physical Chemistry C, 2015, 119, 22908-22914.	1.5	30
44	Pressure-Dependent Optical and Vibrational Properties of Monolayer Molybdenum Disulfide. Nano Letters, 2015, 15, 346-353.	4.5	284
45	Covalent functionalization of monolayered transition metal dichalcogenides by phase engineering. Nature Chemistry, 2015, 7, 45-49.	6.6	637
46	Reduced Graphene Oxide Thin Films as Ultrabarrriers for Organic Electronics. Advanced Energy Materials, 2014, 4, 1300986.	10.2	59
47	Metallic 1T phase source/drain electrodes for field effect transistors from chemical vapor deposited MoS ₂ . APL Materials, 2014, 2, .	2.2	155
48	Chemically exfoliated ReS ₂ nanosheets. Nanoscale, 2014, 6, 12458-12462.	2.8	160
49	Phase-engineered low-resistance contacts for ultrathin MoS ₂ transistors. Nature Materials, 2014, 13, 1128-1134.	13.3	1,463
50	Functional Polyelectrolyte Nanospaced MoS ₂ Multilayers for Enhanced Photoluminescence. Nano Letters, 2014, 14, 6456-6462.	4.5	65
51	N-, O-, and S-Tridoped Nanoporous Carbons as Selective Catalysts for Oxygen Reduction and Alcohol Oxidation Reactions. Journal of the American Chemical Society, 2014, 136, 13554-13557.	6.6	317
52	Two-Dimensional Hybrid Nanosheets of Tungsten Disulfide and Reduced Graphene Oxide as Catalysts for Enhanced Hydrogen Evolution. Angewandte Chemie - International Edition, 2013, 52, 13751-13754.	7.2	474
53	Conducting MoS ₂ Nanosheets as Catalysts for Hydrogen Evolution Reaction. Nano Letters, 2013, 13, 6222-6227.	4.5	1,948
54	Incorporation of small BN domains in graphene during CVD using methane, boric acid and nitrogen gas. Nanoscale, 2013, 5, 6552.	2.8	74

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55	Enhanced catalytic activity in strained chemically exfoliated WS ₂ nanosheets for hydrogen evolution. <i>Nature Materials</i> , 2013, 12, 850-855.	13.3	2,326
56	Efficient Metal-Free Electrocatalysts for Oxygen Reduction: Polyaniline-Derived N- and O-Doped Mesoporous Carbons. <i>Journal of the American Chemical Society</i> , 2013, 135, 7823-7826.	6.6	661
57	Coherent Atomic and Electronic Heterostructures of Single-Layer MoS ₂ . <i>ACS Nano</i> , 2012, 6, 7311-7317.	7.3	806
58	Portrait of carbon nanotube salts as soluble polyelectrolytes. <i>Soft Matter</i> , 2011, 7, 7998.	1.2	38
59	Photoluminescence from Chemically Exfoliated MoS ₂ . <i>Nano Letters</i> , 2011, 11, 5111-5116.	4.5	3,402
60	Dissolution and alkylation of industrially produced multi-walled carbon nanotubes. <i>Carbon</i> , 2011, 49, 170-175.	5.4	20
61	Stoichiometric control of single walled carbon nanotubes functionalization. <i>Journal of Materials Chemistry</i> , 2010, 20, 4385.	6.7	49