

Robert A W Dryfe

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,201
citations

201674

27
h-index

223800

46
g-index

52
all docs

52
docs citations

52
times ranked

3400
citing authors

#	ARTICLE	IF	CITATIONS
1	Ion-Exchange Materials for Membrane Capacitive Deionization. ACS ES&T Water, 2021, 1, 217-239.	4.6	56
2	High temperature supercapacitors using water-in-salt electrolytes: stability above 100 Å°C. Chemical Communications, 2021, 57, 5294-5297.	4.1	14
3	Investigation of Voltage Range and Self-Discharge in Aqueous Zinc-Ion Hybrid Supercapacitors. ChemSusChem, 2021, 14, 1700-1709.	6.8	51
4	Reversible Electrochemical Energy Storage Based on Zinc-Halide Chemistry. ACS Applied Materials & Interfaces, 2021, 13, 14112-14121.	8.0	18
5	Multispectral graphene-based electro-optical surfaces with reversible tunability from visible to microwave wavelengths. Nature Photonics, 2021, 15, 493-498.	31.4	97
6	Water friction in nanofluidic channels made from two-dimensional crystals. Nature Communications, 2021, 12, 3092.	12.8	59
7	Resolution of Lithium Deposition versus Intercalation of Graphite Anodes in Lithium Ion Batteries: An In Situ Electron Paramagnetic Resonance Study. Angewandte Chemie, 2021, 133, 22031-22038.	2.0	4
8	Resolution of Lithium Deposition versus Intercalation of Graphite Anodes in Lithium Ion Batteries: An In Situ Electron Paramagnetic Resonance Study. Angewandte Chemie - International Edition, 2021, 60, 21860-21867.	13.8	35
9	The Modified Liquid-Liquid Interface: The Effect of an Interfacial Layer of MoS ₂ on Ion Transfer. ChemElectroChem, 2021, 8, 4445-4455.	3.4	11
10	The Modified Liquid-Liquid Interface: The Effect of an Interfacial Layer of MoS ₂ on Ion Transfer. ChemElectroChem, 2021, 8, 4393.	3.4	0
11	In situ Electron paramagnetic resonance spectroelectrochemical study of graphene-based supercapacitors: Comparison between chemically reduced graphene oxide and nitrogen-doped reduced graphene oxide. Carbon, 2020, 160, 236-246.	10.3	49
12	Utilizing Cyclic Voltammetry to Understand the Energy Storage Mechanisms for Copper Oxide and its Graphene Oxide Hybrids as Lithium-Ion Battery Anodes. ChemSusChem, 2020, 13, 1504-1516.	6.8	9
13	Electron Tunneling through Boron Nitride Confirms Marcus-Hush Theory Predictions for Ultramicroelectrodes. ACS Nano, 2020, 14, 993-1002.	14.6	16
14	Self-assembly of a layered two-dimensional molecularly woven fabric. Nature, 2020, 588, 429-435.	27.8	74
15	Asymmetric Membrane Capacitive Deionization Using Anion-Exchange Membranes Based on Quaternized Polymer Blends. ACS Applied Polymer Materials, 2020, 2, 2946-2956.	4.4	26
16	Unravelling the Mechanism of Rechargeable Aqueous Zn-MnO ₂ Batteries: Implementation of Charging Process by Electrodeposition of MnO ₂ . ChemSusChem, 2020, 13, 4103-4110.	6.8	74
17	Understanding the electrochemistry of water-in-salt electrolytes: basal plane highly ordered pyrolytic graphite as a model system. Chemical Science, 2020, 11, 6978-6989.	7.4	36
18	Utilizing Cyclic Voltammetry to Understand the Energy Storage Mechanisms for Copper Oxide and its Graphene Oxide Hybrids as Lithium-Ion Battery Anodes. ChemSusChem, 2020, 13, 1046-1046.	6.8	1

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19	Laser Assisted Solution Synthesis of High Performance Graphene Supported Electrocatalysts. <i>Advanced Functional Materials</i> , 2020, 30, 2001756.	14.9	23
20	A Universal Electrolyte Formulation for the Electrodeposition of Pristine Carbon and Polypyrrole Composites for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13386-13399.	8.0	35
21	Electron Paramagnetic Resonance as a Structural Tool to Study Graphene Oxide: Potential Dependence of the EPR Response. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22556-22563.	3.1	26
22	Room-Temperature Production of Nanocrystalline Molybdenum Disulfide (MoS ₂) at the Liquid-Liquid Interface. <i>Chemistry of Materials</i> , 2019, 31, 5384-5391.	6.7	16
23	Capacitance of Basal Plane and Edge-Oriented Highly Ordered Pyrolytic Graphite: Specific Ion Effects. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 617-623.	4.6	50
24	Electrochemically Exfoliated Graphene Electrode for High-Performance Rechargeable Chloroaluminate and Dual-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23261-23270.	8.0	40
25	Controlled Electrodeposition of Gold on Graphene: Maximization of the Defect-Enhanced Raman Scattering Response. <i>Small</i> , 2019, 15, e1901555.	10.0	40
26	Electrochemistry of the Basal Plane versus Edge Plane of Graphite Revisited. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11677-11685.	3.1	67
27	Cell optimisation of supercapacitors using a quasi-reference electrode and potentiostatic analysis. <i>Journal of Power Sources</i> , 2019, 424, 52-60.	7.8	20
28	Secondary Structural Changes in Proteins as a Result of Electroadsorption at Aqueous-Organogel Interfaces. <i>Langmuir</i> , 2019, 35, 5821-5829.	3.5	9
29	Systematic Comparison of Graphene Materials for Supercapacitor Electrodes. <i>ChemistryOpen</i> , 2019, 8, 418-428.	1.9	36
30	Well-Defined Boron/Nitrogen-Doped Polycyclic Aromatic Hydrocarbons Are Active Electrocatalysts for the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2019, 31, 1891-1898.	6.7	42
31	Biofunctional few-layer metal dichalcogenides and related heterostructures produced by direct aqueous exfoliation using phospholipids. <i>RSC Advances</i> , 2019, 9, 37061-37066.	3.6	1
32	<i>In situ</i> electrochemical electron paramagnetic resonance spectroscopy as a tool to probe electrical double layer capacitance. <i>Chemical Communications</i> , 2018, 54, 3827-3830.	4.1	22
33	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. <i>Chemical Communications</i> , 2018, 54, 3831-3834.	4.1	28
34	Optimisation of electrolytic solvents for simultaneous electrochemical exfoliation and functionalisation of graphene with metal nanostructures. <i>Carbon</i> , 2018, 128, 257-266.	10.3	30
35	Electrodeposition of Au on basal plane graphite and graphene. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 374-383.	3.8	16
36	Graphene oxide-polybenzimidazolium nanocomposite anion exchange membranes for electrodialysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24728-24739.	10.3	87

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37	Phospholipid-mediated exfoliation as a facile preparation method for graphene suspensions. RSC Advances, 2018, 8, 19220-19225.	3.6	5
38	Anodic dissolution growth of metal-organic framework HKUST-1 monitored <i>via in situ</i> electrochemical atomic force microscopy. CrystEngComm, 2018, 20, 4421-4427.	2.6	15
39	Electrowetting on conductors: anatomy of the phenomenon. Faraday Discussions, 2017, 199, 49-61.	3.2	15
40	Enhanced Photoelectrochemical Performance of Cuprous Oxide/Graphene Nanohybrids. Journal of the American Chemical Society, 2017, 139, 6682-6692.	13.7	120
41	A simple electrochemical route to metallic phase trilayer MoS ₂ : evaluation as electrocatalysts and supercapacitors. Journal of Materials Chemistry A, 2017, 5, 11316-11330.	10.3	119
42	Enhanced Photoluminescence of Solution-Exfoliated Transition Metal Dichalcogenides by Laser Etching. ACS Omega, 2017, 2, 738-745.	3.5	13
43	Single Stage Simultaneous Electrochemical Exfoliation and Functionalization of Graphene. ACS Applied Materials & Interfaces, 2017, 9, 710-721.	8.0	62
44	Two-Step Electrochemical Intercalation and Oxidation of Graphite for the Mass Production of Graphene Oxide. Journal of the American Chemical Society, 2017, 139, 17446-17456.	13.7	211
45	The significance of bromide in the Brust-Schiffrin synthesis of thiol protected gold nanoparticles. Chemical Science, 2017, 8, 7954-7962.	7.4	37
46	Desalination and Nanofiltration through Functionalized Laminar MoS ₂ Membranes. ACS Nano, 2017, 11, 11082-11090.	14.6	275
47	Electronic structure design for nanoporous, electrically conductive zeolitic imidazolate frameworks. Journal of Materials Chemistry C, 2017, 5, 7726-7731.	5.5	40
48	Electrochemical Interaction of Few-Layer Molybdenum Disulfide Composites vs Sodium: New Insights on the Reaction Mechanism. Chemistry of Materials, 2017, 29, 5886-5895.	6.7	71