

Alex Yong Sheng Eng

List of Publications by Year in descending order

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44
papers

3,957
citations

159358

30
h-index

264894

42
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48
all docs

48
docs citations

48
times ranked

6388
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemistry of Nanostructured Layered Transition-Metal Dichalcogenides. <i>Chemical Reviews</i> , 2015, 115, 11941-11966.	23.0	719
2	Graphene and its electrochemistry – an update. <i>Chemical Society Reviews</i> , 2016, 45, 2458-2493.	18.7	366
3	Electrochemistry of Transition Metal Dichalcogenides: Strong Dependence on the Metal-to-Chalcogen Composition and Exfoliation Method. <i>ACS Nano</i> , 2014, 8, 12185-12198.	7.3	288
4	Layered Metal Thiophosphite Materials: Magnetic, Electrochemical, and Electronic Properties. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12563-12573.	4.0	179
5	Negative Electrocatalytic Effects of p-Doping Niobium and Tantalum on MoS ₂ and WS ₂ for the Hydrogen Evolution Reaction and Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2016, 6, 5724-5734.	5.5	174
6	Catalytic Polysulfide Conversion and Physicochemical Confinement for Lithium–Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1904010.	10.2	165
7	Searching for Magnetism in Hydrogenated Graphene: Using Highly Hydrogenated Graphene Prepared via Birch Reduction of Graphite Oxides. <i>ACS Nano</i> , 2013, 7, 5930-5939.	7.3	149
8	Engineering stable electrode-separator interfaces with ultrathin conductive polymer layer for high-energy-density Li-S batteries. <i>Energy Storage Materials</i> , 2019, 23, 261-268.	9.5	149
9	Black Phosphorus Nanoparticle Labels for Immunoassays via Hydrogen Evolution Reaction Mediation. <i>Analytical Chemistry</i> , 2016, 88, 10074-10079.	3.2	142
10	Transition metal dichalcogenides (MoS ₂ , MoSe ₂ , WS ₂ and WSe ₂) exfoliation technique has strong influence upon their capacitance. <i>Electrochemistry Communications</i> , 2015, 56, 24-28.	2.3	129
11	Enhanced Chemical Immobilization and Catalytic Conversion of Polysulfide Intermediates Using Metallic Mo Nanoclusters for High-Performance Li–S Batteries. <i>ACS Nano</i> , 2020, 14, 1148-1157.	7.3	125
12	Metallic 1T–WS ₂ for Selective Impedimetric Vapor Sensing. <i>Advanced Functional Materials</i> , 2015, 25, 5611-5616.	7.8	122
13	Room-Temperature Sodium–Sulfur Batteries and Beyond: Realizing Practical High Energy Systems through Anode, Cathode, and Electrolyte Engineering. <i>Advanced Energy Materials</i> , 2021, 11, 2003493.	10.2	114
14	An artificial metal-alloy interphase for high-rate and long-life sodium–sulfur batteries. <i>Energy Storage Materials</i> , 2020, 29, 1-8.	9.5	91
15	Unusual Inherent Electrochemistry of Graphene Oxides Prepared Using Permanganate Oxidants. <i>Chemistry - A European Journal</i> , 2013, 19, 12673-12683.	1.7	86
16	Refinements to the structure of graphite oxide: absolute quantification of functional groups via selective labelling. <i>Nanoscale</i> , 2015, 7, 20256-20266.	2.8	76
17	Metal/LiF/Li ₂ O Nanocomposite for Battery Cathode Prelithiation: Trade-off between Capacity and Stability. <i>Nano Letters</i> , 2020, 20, 546-552.	4.5	72
18	Material design strategies to improve the performance of rechargeable magnesium–sulfur batteries. <i>Materials Horizons</i> , 2021, 8, 830-853.	6.4	55

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19	Theory-guided experimental design in battery materials research. <i>Science Advances</i> , 2022, 8, eabm2422.	4.7	52
20	Using a Chloride-Free Magnesium Battery Electrolyte to Form a Robust Anode-Electrolyte Nanointerface. <i>Nano Letters</i> , 2021, 21, 8220-8228.	4.5	51
21	Highly Hydrogenated Graphene through Microwave Exfoliation of Graphite Oxide in Hydrogen Plasma: Towards Electrochemical Applications. <i>Chemistry - A European Journal</i> , 2013, 19, 15583-15592.	1.7	48
22	A High-Performance Magnesium Triflate-based Electrolyte for Rechargeable Magnesium Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100265.	2.8	48
23	Tailoring binder-cathode interactions for long-life room-temperature sodium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22983-22997.	5.2	47
24	A Biphasic Interphase Design Enabling High Performance in Room Temperature Sodium-Sulfur Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100044.	2.8	47
25	Ternary Transition Metal Oxide Nanoparticles with Spinel Structure for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2015, 2, 982-987.	1.7	46
26	Synthesis of Carboxylated-Graphenes by the Kolbe-Schmitt Process. <i>ACS Nano</i> , 2017, 11, 1789-1797.	7.3	45
27	Bipolar Electrochemical Synthesis of WS ₂ Nanoparticles and Their Application in Magneto-Immuno-sandwich Assay. <i>Advanced Functional Materials</i> , 2016, 26, 4094-4098.	7.8	43
28	Controlled synthesis of transition metal disulfides (MoS ₂ and WS ₂) on carbon fibers: Effects of phase and morphology toward lithium-sulfur battery performance. <i>Applied Materials Today</i> , 2019, 16, 529-537.	2.3	42
29	Rechargeable magnesium batteries enabled by conventional electrolytes with multifunctional organic chloride additives. <i>Energy Storage Materials</i> , 2022, 45, 1120-1132.	9.5	40
30	Tunable Nitrogen-Doping of Sulfur Host Nanostructures for Stable and Shuttle-Free Room-Temperature Sodium-Sulfur Batteries. <i>Nano Letters</i> , 2021, 21, 5401-5408.	4.5	36
31	Iridium- and Osmium-decorated Reduced Graphenes as Promising Catalysts for Hydrogen Evolution. <i>ChemPhysChem</i> , 2015, 16, 1898-1905.	1.0	29
32	Intrinsic electrochemical performance and precise control of surface porosity of graphene-modified electrodes using the drop-casting technique. <i>Electrochemistry Communications</i> , 2015, 59, 86-90.	2.3	28
33	Hydrogenated Graphenes by Birch Reduction: Influence of Electron and Proton Sources on Hydrogenation Efficiency, Magnetism, and Electrochemistry. <i>Chemistry - A European Journal</i> , 2015, 21, 16828-16838.	1.7	26
34	Iridium-Catalyst-Based Autonomous Bubble-Propelled Graphene Micromotors with Ultralow Catalyst Loading. <i>Chemistry - A European Journal</i> , 2014, 20, 14946-14950.	1.7	25
35	Facile labelling of graphene oxide for superior capacitive energy storage and fluorescence applications. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9673-9681.	1.3	20
36	Near-Stoichiometric Bulk Graphane from Halogenated Graphenes (X = Cl/Br/I) by the Birch Reduction for High Density Energy Storage. <i>Advanced Functional Materials</i> , 2017, 27, 1605797.	7.8	20

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37	Direct voltammetry of colloidal graphene oxides. <i>Electrochemistry Communications</i> , 2014, 43, 87-90.	2.3	17
38	Electrochemistry of Layered Graphitic Carbon Nitride Synthesised from Various Precursors: Searching for Catalytic Effects. <i>ChemPhysChem</i> , 2016, 17, 481-488.	1.0	16
39	Comparative Study of Conventional Electrolytes for Rechargeable Magnesium Batteries. <i>Batteries and Supercaps</i> , 2022, 5, .	2.4	11
40	Sulfurized Cyclopentadienyl Nanocomposites for Shuttle-Free Room-Temperature Sodium-Sulfur Batteries. <i>Nano Letters</i> , 2021, 21, 10538-10546.	4.5	11
41	Potassium assisted reduction and doping of graphene oxides: towards faster electron transfer kinetics. <i>RSC Advances</i> , 2013, 3, 10900.	1.7	7
42	Frontispiece: Iridium-Catalyst-Based Autonomous Bubble-Propelled Graphene Micromotors with Ultralow Catalyst Loading. <i>Chemistry - A European Journal</i> , 2014, 20, n/a-n/a.	1.7	0
43	Frontispiece: Hydrogenated Graphenes by Birch Reduction: Influence of Electron and Proton Sources on Hydrogenation Efficiency, Magnetism, and Electrochemistry. <i>Chemistry - A European Journal</i> , 2015, 21, .	1.7	0
44	WS ₂ Nanoparticles: Bipolar Electrochemical Synthesis of WS ₂ Nanoparticles and Their Application in Magneto-Immuno-sandwich Assay (<i>Adv. Funct. Mater.</i> 23/2016). <i>Advanced Functional Materials</i> , 2016, 26, 4231-4231.	7.8	0