Jason Riley

List of Publications by Year
in descending order

89 papers	4,675 citations	109321 35 h-index	98798 67 g-index
90 all docs	90 docs citations	90 times ranked	7247 citing authors

#	Article	IF	Citations
1	A Selfâ€Reconstructed Bifunctional Electrocatalyst of Pseudoâ€Amorphous Nickel Carbide @ Iron Oxide Network for Seawater Splitting. Advanced Science, 2022, 9, e2200146.	11.2	35
2	Using Metal Cation to Control the Microstructure of Cobalt Oxide in Energy Conversion and Storage Applications. Small, 2022, 18, e2106391.	10.0	14
3	Pd Ionâ€Exchange and Ammonia Etching of a Prussian Blue Analogue to Produce a Highâ€Performance Waterâ€Splitting Catalyst. Advanced Functional Materials, 2021, 31, 2008989.	14.9	65
4	Anodic Transformation of a Coreâ€Shell Prussian Blue Analogue to a Bifunctional Electrocatalyst for Water Splitting. Advanced Functional Materials, 2021, 31, 2106835.	14.9	47
5	Is Nickel Hydroxide Charging Only Skin-Deep?. ACS Applied Energy Materials, 2020, 3, 2803-2810.	5.1	7
6	Examining the charging behaviour of nickel hydroxide nanomaterials. Electrochemistry Communications, 2019, 101, 47-51.	4.7	9
7	Boosting the Efficiency of Photoelectrolysis by the Addition of Non-Noble Plasmonic Metals: Al & Cu. Nanomaterials, 2019, 9, 1.	4.1	376
8	Lead acid battery recycling for the twenty-first century. Royal Society Open Science, 2018, 5, 171368.	2.4	65
9	Co3O4 hollow nanospheres doped with ZnCo2O4 via thermal vapor mechanism for fast lithium storage. Energy Storage Materials, 2018, 14, 324-334.	18.0	23
10	Tuning the Double Layer of Graphene Oxide through Phosphorus Doping for Enhanced Supercapacitance. ACS Energy Letters, 2017, 2, 1144-1149.	17.4	28
11	Electron Hopping Across Heminâ€Doped Serum Albumin Mats on Centimeterâ€Length Scales. Advanced Materials, 2017, 29, 1700810.	21.0	26
12	Enhancing Distorted Metalâ€"Organic Framework-Derived ZnO as Anode Material for Lithium Storage by the Addition of Ag₂S Quantum Dots. ACS Applied Materials & Interfaces, 2017, 9, 37823-37831.	8.0	20
13	Dandelion-shaped TiO₂/multi-layer graphene composed of TiO₂(B) fibrils and anatase TiO₂ pappi utilizing triphase boundaries for lithium storage. Journal of Materials Chemistry A, 2016, 4, 8762-8768.	10.3	29
14	Significant Broadband Photocurrent Enhancement by Au-CZTS Core-Shell Nanostructured Photocathodes. Scientific Reports, 2016, 6, 23364.	3.3	23
15	Electrochemical recycling of lead from hybrid organicâ€"inorganic perovskites using deep eutectic solvents. Green Chemistry, 2016, 18, 2946-2955.	9.0	62
16	Broadband plasmon photocurrent generation from Au nanoparticles/ mesoporous TiO2 nanotube electrodes. Solar Energy Materials and Solar Cells, 2015, 138, 80-85.	6.2	31
17	The rectenna device: From theory to practice (a review). MRS Energy & Sustainability, 2014, 1, 1.	3.0	83
18	Activation of CdSe Quantum Dots after Exposure to Polysulfide. Journal of Physical Chemistry C, 2014, 118, 14555-14561.	3.1	3

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19	A mechanistic study on templated electrodeposition of one-dimensional TiO 2 nanorods and nanotubes using TiOSO 4 as a precursor. Electrochemistry Communications, 2014, 47, 13-16.	4.7	12
20	Photoelectrochemical properties of chemically exfoliated MoS2. Journal of Materials Chemistry A, 2013, 1, 8935.	10.3	137
21	Nanoscale control of Ag nanostructures for plasmonic fluorescence enhancement of near-infrared dyes. Nano Research, 2013, 6, 496-510.	10.4	78
22	Linear-scaling time-dependent density-functional theory in the linear response formalism. Journal of Chemical Physics, 2013, 139, 064104.	3.0	59
23	Formation of MUA (mercaptoundeconic acid)-capped CDSe nanoparticle films by electrophoretic deposition. Ceramics International, 2013, 39, 8797-8803.	4.8	3
24	Au nanostructures by colloidal lithography: from quenching to extensive fluorescence enhancement. Journal of Materials Chemistry B, 2013, 1, 536-543.	5.8	44
25	Influence of Stress on Aluminum Anodization and Pore Ordering. Journal of the Electrochemical Society, 2013, 160, D10-D12.	2.9	5
26	Nonlinear analysis of a classical system: The Faradaic process. Electrochimica Acta, 2013, 94, 206-213.	5.2	24
27	Tunable synthesis of ordered Zinc Oxide nanoflower-like arrays. Journal of Colloid and Interface Science, 2013, 395, 85-90.	9.4	22
28	Anodic Electrophoretic Deposition of TiO₂ Nanoparticles Synthesized Using Sol Gel Method. Advanced Materials Research, 2013, 832, 633-638.	0.3	0
29	Synthesis of various shapes of titanate nanoparticles via hydrothermal reaction. , 2012, , .		0
30	Importance of QD Purification Procedure on Surface Adsorbance of QDs and Performance of QD Sensitized Photoanodes. Journal of Physical Chemistry C, 2012, 116, 3349-3355.	3.1	31
31	Electrical switching of microgel swelling and collapse for display applications. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 516-522.	2.1	5
32	Bispecific Antibody-Mediated Detection of theStaphylococcus aureusThermonuclease. Analytical Chemistry, 2012, 84, 5876-5884.	6.5	11
33	pH induced swelling of PVP microgel particles â€“ A first order phase transition?. Journal of Colloid and Interface Science, 2012, 370, 67-72.	9.4	11
34	Electrodeposition of ZnO layers for photovoltaic applications: controlling film thickness and orientation. Journal of Materials Chemistry, 2011, 21, 12949.	6.7	70
35	Electrodeposition of ZnO Nanostructures on Molecular Thin Films. Chemistry of Materials, 2011, 23, 3863-3870.	6.7	51
36	Inverted organic photovoltaic devices with high efficiency and stability based on metal oxide charge extraction layers. Journal of Materials Chemistry, 2011, 21, 2381-2386.	6.7	90

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37	Nonlinear analysis of a classical system: The doubleâ€layer capacitor. Electrochemistry Communications, 2011, 13, 1077-1081.	4.7	46
38	Sorption of inorganic nanoparticles in woven cellulose fabrics. Particuology, 2009, 7, 121-128.	3.6	19
39	The effect of perchlorate ions on a pyridine-based microgel. Advances in Colloid and Interface Science, 2009, 147-148, 67-73.	14.7	7
40	Poly(1,1-bis(dialkylamino)propan-1,3-diyl)s; conformationally-controlled oligomers bearing electroactive groups. Organic and Biomolecular Chemistry, 2009, 7, 2704.	2.8	14
41	Synthesis of ZnO nanorod/nanotube arrays formed by hydrothermal growth at a constant zinc ion concentration. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2351-2354.	1.8	22
42	Templated electrosynthesis of nanomaterials and porous structures. Journal of Colloid and Interface Science, 2008, 323, 203-212.	9.4	101
43	Hydrothermal Growth of ZnO Nanorods Aligned Parallel to the Substrate Surface. Journal of Physical Chemistry C, 2008, 112, 9234-9239.	3.1	34
44	Profiting from nature: macroporous copper with superior mechanical properties. Chemical Communications, 2007, , 3547.	4.1	53
45	Electrochemical Quartz Crystal Microbalance in a Channel Flow Cell:â€‰ A Study of Copper Dissolution. Journal of Physical Chemistry C, 2007, 111, 3669-3674.	3.1	6
46	The kinetics of the hydrothermal growth of ZnO nanostructures. Thin Solid Films, 2007, 515, 8679-8683.	1.8	183
47	Preparation of tin dioxide nanotubes via electrosynthesis in a template. Journal of Materials Chemistry, 2006, 16, 2843-2845.	6.7	52
48	Templated Electrosynthesis of Zinc Oxide Nanorods. Chemistry of Materials, 2006, 18, 2233-2237.	6.7	101
49	Mechanism of ZnO Nanotube Growth by Hydrothermal Methods on ZnO Film-Coated Si Substrates. Journal of Physical Chemistry B, 2006, 110, 15186-15192.	2.6	269
50	Synthesis and photoluminescence of ultra-thin ZnO nanowire/nanotube arrays formed by hydrothermal growth. Chemical Physics Letters, 2006, 431, 352-357.	2.6	231
51	A novel cation-binding TiO2 nanotube substrate for electro- and bioelectro-catalysis. Electrochemistry Communications, 2005, 7, 1050-1058.	4.7	89
52	Direct electron transfer between cytochrome P450scc and gold nanoparticles on screen-printed rhodiumâ€"graphite electrodes. Biosensors and Bioelectronics, 2005, 21, 217-222.	10.1	110
53	An in-vitro study of the sterilization of titanium dental implants using low intensity UV-radiation. Dental Materials, 2005, 21, 756-760.	3.5	34
54	Synthesis of Aligned Arrays of Ultrathin ZnO Nanotubes on a Si Wafer Coated with a Thin ZnO Film. Advanced Materials, 2005, 17, 2477-2481.	21.0	329

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55	Methods to fabricate nanocontacts for electrical addressing of single molecules. Sensors and Actuators B: Chemical, 2005, 105, 542-548.	7.8	18
56	Millisecond time resolution neutron reflection from a nematic liquid crystal. Review of Scientific Instruments, 2004, 75, 2955-2959.	1.3	7
57	The Influence of Doping Levels and Surface Termination on the Electrochemistry of Polycrystalline Diamond. Electroanalysis, 2004, 16, 434-441.	2.9	42
58	A study of CdS nanoparticle surface states by potential-modulated sub-bandgap spectroscopy. Journal of Electroanalytical Chemistry, 2004, 569, 271-274.	3.8	10
59	Colloidal bismuth sulfide nanoparticles: a photoelectrochemical study of the relationship between bandgap and particle size. Journal of Materials Chemistry, 2004, 14, 704.	6.7	55
60	Preparation, characterization and electrochemical properties of NafionÂ® doped poly(ortho-anisidine) Langmuirâ€“Schaefer films. Electrochemistry Communications, 2003, 5, 787-792.	4.7	13
61	Band-Edge Tuning in Self-Assembled Layers of Bi2S3Nanoparticles Used To Photosensitize Nanocrystalline TiO2. Journal of Physical Chemistry B, 2003, 107, 8378-8381.	2.6	264
62	A simple route to Ohmic contacts on low boron-doped CVD diamond. Diamond and Related Materials, 2003, 12, 1460-1462.	3.9	9
63	Photosensitization of nanocrystalline TiO2 by self-assembled layers of CdS quantum dots. Chemical Communications, 2002, , 1030-1031.	4.1	236
64	Electrochemistry in nanoparticle science. Current Opinion in Colloid and Interface Science, 2002, 7, 186-192.	7.4	48
65	The influence of surface preparation on the electrochemistry of boron doped diamond: A study of the reduction of 1,4-benzoquinone in acetonitrile. Electrochemistry Communications, 2002, 4, 218-221.	4.7	16
66	Electrochemical studies of moderately boron doped polycrystalline diamond in non-aqueous solvent. Electrochimica Acta, 2002, 47, 2589-2595.	5.2	36
67	Potential modulated absorbance spectroscopy: an investigation of the potential distribution at a CdS nanoparticle modified electrode. Journal of Electroanalytical Chemistry, 2001, 504, 45-51.	3.8	11
68	Intensity modulated photocurrent spectroscopy studies of CdS nanoparticle modified electrodes. Electrochimica Acta, 2000, 45, 3277-3282.	5.2	28
69	Potential induced tuning of the luminescence of porous silicon: A simultaneous study of electroluminescence and photoluminescence emission. Electrochemistry Communications, 2000, 2, 461-465.	4.7	8
70	Photoelectrochemical Studies of CdS Nanoparticle Modified Electrodes:Â Absorption and Photocurrent Investigations. Journal of Physical Chemistry B, 2000, 104, 7623-7626.	2.6	72
71	A Variable Optical Attenuator Operating in the Near-Infrared Region Based on an Electrochromic Molybdenum Complex. Chemistry of Materials, 2000, 12, 2523-2524.	6.7	91
72	Impedance studies of boron-doped CVD diamond electrodes. Diamond and Related Materials, 2000, 9, 1181-1183.	3.9	46

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73	The Computer Aided Design and Experimental Development of a New Device for the Measurement of Electrochemiluminescence. Electroanalysis, 2000, 12, 503-508.	2.9	2
74	Underpotential deposition of copper on electrodes modified with colloidal gold. Electrochemistry Communications, 1999, 1, 116-118.	4.7	13
75	CdS nanoparticle-modified electrodes for photoelectrochemical studies. Chemical Communications, 1999, , 67-68.	4.1	27
76	Photoelectrochemical Studies of CdS Nanoparticle-Modified Electrodes. Journal of Physical Chemistry B, 1999, 103, 4599-4602.	2.6	63
77	An electrochemical and ellipsometric study of oxide growth on silicon during anodic etching in fluoride solutions. Electrochimica Acta, 1998, 43, 1757-1772.	5.2	24
78	Investigation of the Processes of Electron Injection during Dissolution of p-Si in Acidic Fluoride and Alkaline Media. Journal of Physical Chemistry B, 1997, 101, 4071-4076.	2.6	14
79	Mechanisms of luminescence tuning and quenching in porous silicon. Thin Solid Films, 1996, 276, 123-129.	1.8	28
80	An in-situ method of monitoring the surface area of porous silicon. Thin Solid Films, 1996, 276, 61-64.	1.8	8
81	On the mechanism of the voltage tuning of photoluminescence and electroluminescence in porous silicon. Journal of Electroanalytical Chemistry, 1995, 392, 97-100.	3.8	13
82	In situ monitoring of internal surface area during the growth of porous silicon. Applied Physics Letters, 1995, 66, 2355-2357.	3.3	41
83	Spectrofluorimetric Hydrodynamic Voltammetry: Investigation of Reactions at Solid/Liquid Interfaces. The Journal of Physical Chemistry, 1994, 98, 6818-6825.	2.9	16
84	Voltammetry at C60-modified electrodes. Journal of Electroanalytical Chemistry, 1993, 344, 235-247.	3.8	69
85	Analysis of anisotropic electron spin polarization in the photosynthetic bacterium Rhodospirillum rubrum.. Biochimica Et Biophysica Acta - Bioenergetics, 1993, 1141, 221-230.	1.0	30
86	Electron spin polarization in photosynthetic bacteria. Anisotropic chemical reactivity. Research on Chemical Intermediates, 1991, 16, 127-139.	2.7	5
87	Langmuir-blodgett films of doxyl-stearic acids: Cyclic voltammetry. Electroanalysis, 1991, 3, 757-762.	2.9	4
88	Charge in Colloidal Systems. , 0, , 14-35.		5
89	Mechanism of Actuation in Nickel Hydroxide/Oxyhydroxide Photoactuators. Advanced Materials Interfaces, 0, , 2101072.	3.7	3