

Jason Riley

List of Publications by Year in descending order

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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	Boosting the Efficiency of Photoelectrolysis by the Addition of Non-Noble Plasmonic Metals: Al & Cu. <i>Nanomaterials</i> , 2019, 9, 1.	4.1	376
2	Synthesis of Aligned Arrays of Ultrathin ZnO Nanotubes on a Si Wafer Coated with a Thin ZnO Film. <i>Advanced Materials</i> , 2005, 17, 2477-2481.	21.0	329
3	Mechanism of ZnO Nanotube Growth by Hydrothermal Methods on ZnO Film-Coated Si Substrates. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15186-15192.	2.6	269
4	Band-Edge Tuning in Self-Assembled Layers of Bi ₂ S ₃ Nanoparticles Used To Photosensitize Nanocrystalline TiO ₂ . <i>Journal of Physical Chemistry B</i> , 2003, 107, 8378-8381.	2.6	264
5	Photosensitization of nanocrystalline TiO ₂ by self-assembled layers of CdS quantum dots. <i>Chemical Communications</i> , 2002, , 1030-1031.	4.1	236
6	Synthesis and photoluminescence of ultra-thin ZnO nanowire/nanotube arrays formed by hydrothermal growth. <i>Chemical Physics Letters</i> , 2006, 431, 352-357.	2.6	231
7	The kinetics of the hydrothermal growth of ZnO nanostructures. <i>Thin Solid Films</i> , 2007, 515, 8679-8683.	1.8	183
8	Photoelectrochemical properties of chemically exfoliated MoS ₂ . <i>Journal of Materials Chemistry A</i> , 2013, 1, 8935.	10.3	137
9	Direct electron transfer between cytochrome P450 _{scc} and gold nanoparticles on screen-printed rhodium-graphite electrodes. <i>Biosensors and Bioelectronics</i> , 2005, 21, 217-222.	10.1	110
10	Templated Electrosynthesis of Zinc Oxide Nanorods. <i>Chemistry of Materials</i> , 2006, 18, 2233-2237.	6.7	101
11	Templated electrosynthesis of nanomaterials and porous structures. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 203-212.	9.4	101
12	A Variable Optical Attenuator Operating in the Near-Infrared Region Based on an Electrochromic Molybdenum Complex. <i>Chemistry of Materials</i> , 2000, 12, 2523-2524.	6.7	91
13	Inverted organic photovoltaic devices with high efficiency and stability based on metal oxide charge extraction layers. <i>Journal of Materials Chemistry</i> , 2011, 21, 2381-2386.	6.7	90
14	A novel cation-binding TiO ₂ nanotube substrate for electro- and bioelectro-catalysis. <i>Electrochemistry Communications</i> , 2005, 7, 1050-1058.	4.7	89
15	The rectenna device: From theory to practice (a review). <i>MRS Energy & Sustainability</i> , 2014, 1, 1.	3.0	83
16	Nanoscale control of Ag nanostructures for plasmonic fluorescence enhancement of near-infrared dyes. <i>Nano Research</i> , 2013, 6, 496-510.	10.4	78
17	Photoelectrochemical Studies of CdS Nanoparticle Modified Electrodes: Absorption and Photocurrent Investigations. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7623-7626.	2.6	72
18	Electrodeposition of ZnO layers for photovoltaic applications: controlling film thickness and orientation. <i>Journal of Materials Chemistry</i> , 2011, 21, 12949.	6.7	70

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19	Voltammetry at C60-modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1993, 344, 235-247.	3.8	69
20	Lead acid battery recycling for the twenty-first century. <i>Royal Society Open Science</i> , 2018, 5, 171368.	2.4	65
21	Pd Ion Exchange and Ammonia Etching of a Prussian Blue Analogue to Produce a High-Performance Water-Splitting Catalyst. <i>Advanced Functional Materials</i> , 2021, 31, 2008989.	14.9	65
22	Photoelectrochemical Studies of CdS Nanoparticle-Modified Electrodes. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4599-4602.	2.6	63
23	Electrochemical recycling of lead from hybrid organic-inorganic perovskites using deep eutectic solvents. <i>Green Chemistry</i> , 2016, 18, 2946-2955.	9.0	62
24	Linear-scaling time-dependent density-functional theory in the linear response formalism. <i>Journal of Chemical Physics</i> , 2013, 139, 064104.	3.0	59
25	Colloidal bismuth sulfide nanoparticles: a photoelectrochemical study of the relationship between bandgap and particle size. <i>Journal of Materials Chemistry</i> , 2004, 14, 704.	6.7	55
26	Profiting from nature: macroporous copper with superior mechanical properties. <i>Chemical Communications</i> , 2007, , 3547.	4.1	53
27	Preparation of tin dioxide nanotubes via electrosynthesis in a template. <i>Journal of Materials Chemistry</i> , 2006, 16, 2843-2845.	6.7	52
28	Electrodeposition of ZnO Nanostructures on Molecular Thin Films. <i>Chemistry of Materials</i> , 2011, 23, 3863-3870.	6.7	51
29	Electrochemistry in nanoparticle science. <i>Current Opinion in Colloid and Interface Science</i> , 2002, 7, 186-192.	7.4	48
30	Anodic Transformation of a Core-Shell Prussian Blue Analogue to a Bifunctional Electrocatalyst for Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2106835.	14.9	47
31	Impedance studies of boron-doped CVD diamond electrodes. <i>Diamond and Related Materials</i> , 2000, 9, 1181-1183.	3.9	46
32	Nonlinear analysis of a classical system: The double-layer capacitor. <i>Electrochemistry Communications</i> , 2011, 13, 1077-1081.	4.7	46
33	Au nanostructures by colloidal lithography: from quenching to extensive fluorescence enhancement. <i>Journal of Materials Chemistry B</i> , 2013, 1, 536-543.	5.8	44
34	The Influence of Doping Levels and Surface Termination on the Electrochemistry of Polycrystalline Diamond. <i>Electroanalysis</i> , 2004, 16, 434-441.	2.9	42
35	In situ monitoring of internal surface area during the growth of porous silicon. <i>Applied Physics Letters</i> , 1995, 66, 2355-2357.	3.3	41
36	Electrochemical studies of moderately boron doped polycrystalline diamond in non-aqueous solvent. <i>Electrochimica Acta</i> , 2002, 47, 2589-2595.	5.2	36

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37	A Self-Reconstructed Bifunctional Electrocatalyst of Pseudo-Amorphous Nickel Carbide @ Iron Oxide Network for Seawater Splitting. <i>Advanced Science</i> , 2022, 9, e2200146.	11.2	35
38	An in-vitro study of the sterilization of titanium dental implants using low intensity UV-radiation. <i>Dental Materials</i> , 2005, 21, 756-760.	3.5	34
39	Hydrothermal Growth of ZnO Nanorods Aligned Parallel to the Substrate Surface. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9234-9239.	3.1	34
40	Importance of QD Purification Procedure on Surface Adsorbance of QDs and Performance of QD Sensitized Photoanodes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3349-3355.	3.1	31
41	Broadband plasmon photocurrent generation from Au nanoparticles/ mesoporous TiO ₂ nanotube electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2015, 138, 80-85.	6.2	31
42	Analysis of anisotropic electron spin polarization in the photosynthetic bacterium <i>Rhodospirillum rubrum</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1993, 1141, 221-230.	1.0	30
43	Dandelion-shaped TiO ₂ /multi-layer graphene composed of TiO ₂ (B) fibrils and anatase TiO ₂ pappi utilizing triphase boundaries for lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8762-8768.	10.3	29
44	Mechanisms of luminescence tuning and quenching in porous silicon. <i>Thin Solid Films</i> , 1996, 276, 123-129.	1.8	28
45	Intensity modulated photocurrent spectroscopy studies of CdS nanoparticle modified electrodes. <i>Electrochimica Acta</i> , 2000, 45, 3277-3282.	5.2	28
46	Tuning the Double Layer of Graphene Oxide through Phosphorus Doping for Enhanced Supercapacitance. <i>ACS Energy Letters</i> , 2017, 2, 1144-1149.	17.4	28
47	CdS nanoparticle-modified electrodes for photoelectrochemical studies. <i>Chemical Communications</i> , 1999, , 67-68.	4.1	27
48	Electron Hopping Across Hemin-Doped Serum Albumin Mats on Centimeter-Length Scales. <i>Advanced Materials</i> , 2017, 29, 1700810.	21.0	26
49	An electrochemical and ellipsometric study of oxide growth on silicon during anodic etching in fluoride solutions. <i>Electrochimica Acta</i> , 1998, 43, 1757-1772.	5.2	24
50	Nonlinear analysis of a classical system: The Faradaic process. <i>Electrochimica Acta</i> , 2013, 94, 206-213.	5.2	24
51	Significant Broadband Photocurrent Enhancement by Au-CZTS Core-Shell Nanostructured Photocathodes. <i>Scientific Reports</i> , 2016, 6, 23364.	3.3	23
52	Co ₃ O ₄ hollow nanospheres doped with ZnCo ₂ O ₄ via thermal vapor mechanism for fast lithium storage. <i>Energy Storage Materials</i> , 2018, 14, 324-334.	18.0	23
53	Synthesis of ZnO nanorod/nanotube arrays formed by hydrothermal growth at a constant zinc ion concentration. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2351-2354.	1.8	22
54	Tunable synthesis of ordered Zinc Oxide nanoflower-like arrays. <i>Journal of Colloid and Interface Science</i> , 2013, 395, 85-90.	9.4	22

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55	Enhancing Distorted Metal-Organic Framework-Derived ZnO as Anode Material for Lithium Storage by the Addition of Ag ₂ S Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37823-37831.	8.0	20
56	Sorption of inorganic nanoparticles in woven cellulose fabrics. <i>Particuology</i> , 2009, 7, 121-128.	3.6	19
57	Methods to fabricate nanocontacts for electrical addressing of single molecules. <i>Sensors and Actuators B: Chemical</i> , 2005, 105, 542-548.	7.8	18
58	Spectrofluorimetric Hydrodynamic Voltammetry: Investigation of Reactions at Solid/Liquid Interfaces. <i>The Journal of Physical Chemistry</i> , 1994, 98, 6818-6825.	2.9	16
59	The influence of surface preparation on the electrochemistry of boron doped diamond: A study of the reduction of 1,4-benzoquinone in acetonitrile. <i>Electrochemistry Communications</i> , 2002, 4, 218-221.	4.7	16
60	Investigation of the Processes of Electron Injection during Dissolution of p-Si in Acidic Fluoride and Alkaline Media. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4071-4076.	2.6	14
61	Poly(1,1-bis(dialkylamino)propan-1,3-diyl)s; conformationally-controlled oligomers bearing electroactive groups. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2704.	2.8	14
62	Using Metal Cation to Control the Microstructure of Cobalt Oxide in Energy Conversion and Storage Applications. <i>Small</i> , 2022, 18, e2106391.	10.0	14
63	On the mechanism of the voltage tuning of photoluminescence and electroluminescence in porous silicon. <i>Journal of Electroanalytical Chemistry</i> , 1995, 392, 97-100.	3.8	13
64	Underpotential deposition of copper on electrodes modified with colloidal gold. <i>Electrochemistry Communications</i> , 1999, 1, 116-118.	4.7	13
65	Preparation, characterization and electrochemical properties of Nafion [®] doped poly(ortho-anisidine) Langmuir-Schaefer films. <i>Electrochemistry Communications</i> , 2003, 5, 787-792.	4.7	13
66	A mechanistic study on templated electrodeposition of one-dimensional TiO ₂ nanorods and nanotubes using TiOSO ₄ as a precursor. <i>Electrochemistry Communications</i> , 2014, 47, 13-16.	4.7	12
67	Potential modulated absorbance spectroscopy: an investigation of the potential distribution at a CdS nanoparticle modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2001, 504, 45-51.	3.8	11
68	Bispecific Antibody-Mediated Detection of the <i>Staphylococcus aureus</i> Thermonuclease. <i>Analytical Chemistry</i> , 2012, 84, 5876-5884.	6.5	11
69	pH induced swelling of PVP microgel particles – A first order phase transition?. <i>Journal of Colloid and Interface Science</i> , 2012, 370, 67-72.	9.4	11
70	A study of CdS nanoparticle surface states by potential-modulated sub-bandgap spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2004, 569, 271-274.	3.8	10
71	A simple route to Ohmic contacts on low boron-doped CVD diamond. <i>Diamond and Related Materials</i> , 2003, 12, 1460-1462.	3.9	9
72	Examining the charging behaviour of nickel hydroxide nanomaterials. <i>Electrochemistry Communications</i> , 2019, 101, 47-51.	4.7	9

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73	An in-situ method of monitoring the surface area of porous silicon. <i>Thin Solid Films</i> , 1996, 276, 61-64.	1.8	8
74	Potential induced tuning of the luminescence of porous silicon: A simultaneous study of electroluminescence and photoluminescence emission. <i>Electrochemistry Communications</i> , 2000, 2, 461-465.	4.7	8
75	Millisecond time resolution neutron reflection from a nematic liquid crystal. <i>Review of Scientific Instruments</i> , 2004, 75, 2955-2959.	1.3	7
76	The effect of perchlorate ions on a pyridine-based microgel. <i>Advances in Colloid and Interface Science</i> , 2009, 147-148, 67-73.	14.7	7
77	Is Nickel Hydroxide Charging Only Skin-Deep?. <i>ACS Applied Energy Materials</i> , 2020, 3, 2803-2810.	5.1	7
78	Electrochemical Quartz Crystal Microbalance in a Channel Flow Cell: A Study of Copper Dissolution. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3669-3674.	3.1	6
79	Electron spin polarization in photosynthetic bacteria. Anisotropic chemical reactivity. <i>Research on Chemical Intermediates</i> , 1991, 16, 127-139.	2.7	5
80	Charge in Colloidal Systems. , 0, , 14-35.		5
81	Electrical switching of microgel swelling and collapse for display applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 516-522.	2.1	5
82	Influence of Stress on Aluminum Anodization and Pore Ordering. <i>Journal of the Electrochemical Society</i> , 2013, 160, D10-D12.	2.9	5
83	Langmuir-blodgett films of doxyl-stearic acids: Cyclic voltammetry. <i>Electroanalysis</i> , 1991, 3, 757-762.	2.9	4
84	Formation of MUA (mercaptoundeonic acid)-capped CdSe nanoparticle films by electrophoretic deposition. <i>Ceramics International</i> , 2013, 39, 8797-8803.	4.8	3
85	Activation of CdSe Quantum Dots after Exposure to Polysulfide. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14555-14561.	3.1	3
86	Mechanism of Actuation in Nickel Hydroxide/Oxyhydroxide Photoactuators. <i>Advanced Materials Interfaces</i> , 0, , 2101072.	3.7	3
87	The Computer Aided Design and Experimental Development of a New Device for the Measurement of Electrochemiluminescence. <i>Electroanalysis</i> , 2000, 12, 503-508.	2.9	2
88	Synthesis of various shapes of titanate nanoparticles via hydrothermal reaction. , 2012, , .		0
89	Anodic Electrophoretic Deposition of TiO ₂ Nanoparticles Synthesized Using Sol Gel Method. <i>Advanced Materials Research</i> , 2013, 832, 633-638.	0.3	0