

James H Dickerson

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88 papers	2,007 citations	24 h-index	42 g-index
93 ext. papers	2,172 ext. citations	5.5 avg, IF	5.06 L-index

#	Paper	IF	Citations
88	Superhydrophobic silanized melamine sponges as high efficiency oil absorbent materials. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14181-8	9.5	269
87	Understanding the oriented-attachment growth of nanocrystals from an energy point of view: a review. <i>Nanoscale</i> , 2014 , 6, 2531-47	7.7	133
86	Transferable graphene oxide films with tunable microstructures. <i>ACS Nano</i> , 2010 , 4, 7367-72	16.7	121
85	Recent progress in degradation and stabilization of organic solar cells. <i>Journal of Power Sources</i> , 2014 , 264, 168-183	8.9	113
84	Size- and charge-dependent non-specific uptake of PEGylated nanoparticles by macrophages. <i>International Journal of Nanomedicine</i> , 2012 , 7, 799-813	7.3	106
83	Gas transport in porous electrodes of solid oxide fuel cells: A review on diffusion and diffusivity measurement. <i>Journal of Power Sources</i> , 2013 , 237, 64-73	8.9	62
82	Reduced Graphene Oxide Hydrogels Deposited in Nickel Foam for Supercapacitor Applications: Toward High Volumetric Capacitance. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5353-5360	3.8	50
81	Buckypaper fabrication by liberation of electrophoretically deposited carbon nanotubes. <i>Carbon</i> , 2010 , 48, 4090-4099	10.4	49
80	Hydrogenated TiO ₂ @reduced graphene oxide sandwich-like nanosheets for high voltage supercapacitor applications. <i>Carbon</i> , 2018 , 126, 135-144	10.4	45
79	Synthesis of monodisperse sub-3 nm RE ₂ O ₃ and Gd ₂ O ₃ :RE ₃ +nanocrystals. <i>Nanotechnology</i> , 2007 , 18, 325605	3.4	45
78	Carbon nanotube-nanocrystal heterostructures fabricated by electrophoretic deposition. <i>Nanotechnology</i> , 2008 , 19, 195301	3.4	42
77	Highly Efficient Materials Assembly Via Electrophoretic Deposition for Electrochemical Energy Conversion and Storage Devices. <i>Advanced Energy Materials</i> , 2016 , 6, 1502018	21.8	39
76	Electrophoretic deposition of CdSe nanocrystal films onto dielectric polymer thin films. <i>Thin Solid Films</i> , 2009 , 517, 2665-2669	2.2	38
75	Sacrificial layer electrophoretic deposition of free-standing multilayered nanoparticle films. <i>Chemical Communications</i> , 2009 , 3723-5	5.8	37
74	Distinctive Supercapacitive Properties of Copper and Copper Oxide Nanocrystals Sharing a Similar Colloidal Synthetic Route. <i>Advanced Energy Materials</i> , 2017 , 7, 1700105	21.8	35
73	Facile electrodeposition of reduced graphene oxide hydrogels for high-performance supercapacitors. <i>Nanoscale</i> , 2015 , 7, 5947-50	7.7	34
72	An analytical expression for the van der Waals interaction in oriented-attachment growth: a spherical nanoparticle and a growing cylindrical nanorod. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4548-53	3.6	34

71	Superantiferromagnetic EuTe nanoparticles: room temperature colloidal synthesis, structural characterization, and magnetic properties. <i>Nanoscale</i> , 2011 , 3, 184-7	7.7	33
70	Remarkable optical and magnetic properties of ultra-thin europium oxysulfide nanorods. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16728		31
69	Evolution of ordering in iron oxide nanoparticle monolayers using electrophoretic deposition. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3611-5	9.5	28
68	A new insight into the oxygen diffusion in porous cathodes of lithium-air batteries. <i>Energy</i> , 2015 , 83, 669-673	7.9	27
67	Overall concentration polarization and limiting current density of fuel cells with nanostructured electrodes. <i>Nano Energy</i> , 2012 , 1, 828-832	17.1	26
66	Controlled electrophoretic deposition of uniquely nanostructured star polymer films. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 23-8	3.4	26
65	Direct electrophoretic deposition of an ultra-strong separator on an anode in a surfactant-free colloidal system for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1410-1417	13	24
64	Lithium-Air Batteries: Performance Interplays with Instability Factors. <i>ChemElectroChem</i> , 2015 , 2, 312-323	4.3	24
63	Toward dynamic control over TiO ₂ nanocrystal monolayer-by-monolayer film formation by electrophoretic deposition in nonpolar solvents. <i>Langmuir</i> , 2012 , 28, 5295-301	4	24
62	A facile synthesis of Te nanoparticles with binary size distribution by green chemistry. <i>Nanoscale</i> , 2011 , 3, 1523-5	7.7	23
61	Thermally driven isotropic crystallinity breaking of nanocrystals: Insight into the assembly of EuS nanoclusters and nanorods with oleate ligands. <i>Applied Physics Letters</i> , 2011 , 98, 081914	3.4	23
60	Physical justification for ionic conductivity enhancement at strained coherent interfaces. <i>Journal of Power Sources</i> , 2015 , 285, 37-42	8.9	22
59	Understanding the growth of Eu(2)O(3) nanocrystal films made via electrophoretic deposition. <i>Nanotechnology</i> , 2010 , 21, 145704	3.4	22
58	Europium sulfide nanoparticles in the sub-2nm size regime. <i>Materials Chemistry and Physics</i> , 2009 , 115, 526-529	4.4	21
57	EuS nanocrystals: a novel synthesis for the generation of monodisperse nanocrystals with size-dependent optical properties. <i>Nanotechnology</i> , 2010 , 21, 415601	3.4	20
56	Electrophoretic deposition and characterization of Eu ₂ O ₃ nanocrystal-carbon nanotube heterostructures. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 1145-1150	6	20
55	Electric-Field Tuning of Spin-Dependent Exciton-Exciton Interactions in Coupled Quantum Wells. <i>Physical Review Letters</i> , 1999 , 83, 2433-2436	7.4	19
54	Electrophoretic deposition: fundamentals and applications. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1501	3.4	18

53	Magnetization reversal in europium sulfide nanocrystals. <i>Applied Physics Letters</i> , 2006 , 89, 222501	3.4	18
52	An electrochemical device for three-dimensional (3D) diffusivity measurement in fuel cells. <i>Nano Energy</i> , 2013 , 2, 1004-1009	17.1	16
51	Physical justification for negative remanent magnetization in homogeneous nanoparticles. <i>Scientific Reports</i> , 2014 , 4, 6267	4.9	16
50	Ligand-mediated shape control in the solvothermal synthesis of titanium dioxide nanospheres, nanorods and nanowires. <i>Nanoscale</i> , 2011 , 3, 3799-804	7.7	14
49	Gas Transport in Solid Oxide Fuel Cells. <i>SpringerBriefs in Energy</i> , 2014 ,	0.3	13
48	Growth of Solid and Hollow Gold Particles through the Thermal Annealing of Nanoscale Patterned Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11590-6	9.5	13
47	Dielectric properties of colloidal Gd ₂ O ₃ nanocrystal films fabricated via electrophoretic deposition. <i>Applied Physics Letters</i> , 2010 , 96, 113105	3.4	13
46	Statistical assessment of order within systems of nanoparticles: determining the efficacy of patterned substrates to facilitate ordering within nanoparticle monolayers fabricated through electrophoretic deposition. <i>Physical Review E</i> , 2013 , 87, 042307	2.4	12
45	Patterned substrates to facilitate long-range ordering in the formation of nanoparticle monolayers by electrophoretic deposition. <i>Applied Physics Letters</i> , 2012 , 101, 043117	3.4	12
44	Size- and dimensionality-dependent optical, magnetic and magneto-optical properties of binary europium-based nanocrystals: EuX (X = O, S, Se, Te). <i>Nanotechnology</i> , 2016 , 27, 192001	3.4	12
43	Nanoscale engineering of TiO ₂ nanoparticles: Evolution of the shape, phase, morphology, and facet orientation. <i>Materials Letters</i> , 2016 , 180, 212-218	3.3	12
42	Facile electrophoretic deposition of functionalized Bi ₂ O ₃ nanoparticles. <i>Materials and Design</i> , 2017 , 116, 359-364	8.1	11
41	Using Voronoi tessellations to assess nanoparticle-nanoparticle interactions and ordering in monolayer films formed through electrophoretic deposition. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 1664-9	3.4	11
40	Quantitative evaluation of Coulombic interactions in the oriented-attachment growth of nanotubes. <i>Analyst, The</i> , 2014 , 139, 371-4	5	11
39	Electrophoretic Deposition of Nanocrystals in Non-polar Solvents. <i>Nanostructure Science and Technology</i> , 2012 , 131-155	0.9	11
38	Nanoporous TiO ₂ nanoparticle assemblies with mesoscale morphologies: nano-cabbage versus sea-anemone. <i>Nanoscale</i> , 2014 , 6, 5652-6	7.7	10
37	Freestanding Carbon Nanotube Films Fabricated by Post-Electrophoretic Deposition Electrochemical Separation. <i>Journal of the Electrochemical Society</i> , 2012 , 159, K103-K106	3.9	9
36	Field Dependence of the Spin Relaxation Within a Film of Iron Oxide Nanocrystals Formed via Electrophoretic Deposition. <i>Nanoscale Research Letters</i> , 2010 , 5, 1540-5	5	8

35	Synthesis of RE(OH)2Cl and REOCl (RE=Eu, Tb) nanostructures. <i>Journal of Rare Earths</i> , 2008 , 26, 131-135	3.7	8
34	X-ray scattering as a liquid and solid phase probe of ordering within sub-monolayers of iron oxide nanoparticles fabricated by electrophoretic deposition. <i>Nanoscale</i> , 2014 , 6, 4047-51	7.7	7
33	Surfactant induced colloidal growth and selective electrophoretic deposition of one-dimensional Te nanocrystals. <i>Materials Letters</i> , 2013 , 110, 148-151	3.3	7
32	Insight into Nanoparticle Charging Mechanism in Nonpolar Solvents To Control the Formation of Pt Nanoparticle Monolayers by Electrophoretic Deposition. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19680-90	9.5	7
31	Out-of-Cell Oxygen Diffusivity Evaluation in Lithium-Air Batteries. <i>ChemElectroChem</i> , 2014 , 1, 2052-2057	4.3	6
30	Concentration dependence of the exchange interaction in lead europium sulfide nanocrystals. <i>Solid State Communications</i> , 2012 , 152, 161-164	1.6	6
29	Improved speed of hydrogen detection by Schottky diodes on InP with electrophoretically deposited Pt nanoparticles and graphite contacts. <i>Sensors and Actuators B: Chemical</i> , 2013 , 184, 295-300	8.5	6
28	Mössbauer spectra and superparamagnetism of europium sulfide nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 075001	3	5
27	Electrochemical devices with optimized gas tightness for the diffusivity measurement in fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2334-2339	6.7	5
26	Template assisted synthesis of europium sulfide nanotubes. <i>Materials Letters</i> , 2011 , 65, 420-423	3.3	5
25	Interfacial Development of Electrophoretically Deposited Graphene Oxide Films on Al Alloys. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D3025-D3029	3.9	4
24	Comparing Highly Ordered Monolayers of Nanoparticles Fabricated Using Electrophoretic Deposition: Cobalt Ferrite Nanoparticles versus Iron Oxide Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D3036-D3039	3.9	4
23	Polyamic acid: nanoprecipitation and electrophoretic deposition on porous supports 2018 , 15, 489-496		4
22	Ultrathin YO:Eu nanodiscs: spectroscopic investigations and evidence for reduced concentration quenching. <i>Nanotechnology</i> , 2018 , 29, 455703	3.4	4
21	Structural and magnetic analysis of nanocrystalline lead europium sulfide (PbxEu _y S). <i>Materials Chemistry and Physics</i> , 2012 , 134, 1-6	4.4	3
20	Protective coatings for enhanced performance in biomedical applications. <i>Surface Engineering</i> , 2012 , 28, 473-479	2.6	3
19	Optical studies of sub-3 nm Eu ₂ O ₃ and Gd ₂ O ₃ :Eu ³⁺ nanocrystals. <i>Journal of Alloys and Compounds</i> , 2009 , 488, 574-577	5.7	3
18	Kinetics of monolayer and bilayer nanoparticle film formation during electrophoretic deposition. <i>Advances in Applied Ceramics</i> , 2014 , 113, 50-54	2.3	2

17	Optimal packing size of non-ligated CdSe nanoclusters for microstructure synthesis. <i>Journal of Applied Physics</i> , 2014 , 116, 104301	2.5	2
16	Wide angle x-ray diffraction studies of nanocrystalline lead europium sulfide. <i>Materials Letters</i> , 2012 , 89, 198-201	3.3	2
15	Thin Films of Europium (III) Doped-TiO ₂ Prepared by Electrophoretic Deposition from Nanoparticulate Sols. <i>Key Engineering Materials</i> , 2012 , 507, 73-77	0.4	2
14	Electric-field tuning of the Rabi splitting in a superlattice-embedded microcavity. <i>Applied Physics Letters</i> , 2002 , 81, 803-805	3.4	2
13	Electrophoretic Deposition of Metal Nanoparticle Monolayers from Nonpolar Solvents for Hydrogen Sensing. <i>Key Engineering Materials</i> , 2015 , 654, 213-217	0.4	1
12	Post-Electrophoretic Deposition Electrochemical Separation (PEPDECS): Optimization of the Fabrication of Freestanding Carbon Nanotube Films. <i>ECS Journal of Solid State Science and Technology</i> , 2014 , 3, M71-M75	2	1
11	Selective Deposition of TiO ₂ during Monolayer Formation of TiO ₂ and Iron Oxide Nanocrystals by Electrophoretic Deposition in Non-Polar Solvents. <i>Key Engineering Materials</i> , 2012 , 507, 89-93	0.4	1
10	A novel method of photonic band-gap lithography of porous silicon heterostructures 2007 ,		1
9	The evaluation of van der Waals interaction in the oriented-attachment growth of nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1705, 1		
8	Electrophoretic Deposition of Star Polymer-Europium Chalcogenide Nanocomposite Films. <i>Key Engineering Materials</i> , 2009 , 412, 113-118	0.4	
7	Current Measurements as a Direct Diagnostic for Sub-Monolayer Growth of Nanoparticle Films in Non-Polar Electrophoretic Deposition. <i>Key Engineering Materials</i> , 2012 , 507, 79-83	0.4	
6	Characterization of EuS Nanotubes in Quantum Confinement. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1178-1179	0.5	
5	Response to Comment on Magnetization reversal in europium sulfide nanocrystals[Appl. Phys. Lett. 91, 026102 (2007)]. <i>Applied Physics Letters</i> , 2008 , 92, 026103	3.4	
4	Electric field enhancement of the Rabi splitting in a superlattice-microcavity system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 13, 398-402	3	
3	Spin-Dependent Exciton-Exciton Interaction in Quantum Wells under an Electric Field. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 223-228	1.3	
2	Diffusivity Measurement Techniques. <i>SpringerBriefs in Energy</i> , 2014 , 19-44	0.3	
1	Introduction to Gas Transport in Solid Oxide Fuel Cells. <i>SpringerBriefs in Energy</i> , 2014 , 1-8	0.3	