

Barry D Stein

List of Publications by Citations

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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.

89
papers

3,765
citations

33
h-index

59
g-index

89
ext. papers

4,100
ext. citations

6.2
avg, IF

4.67
L-index

#	Paper	IF	Citations
89	Influence of Iron Oleate Complex Structure on Iron Oxide Nanoparticle Formation. <i>Chemistry of Materials</i> , 2007 , 19, 3624-3632	9.6	441
88	Core-controlled polymorphism in virus-like particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 1354-9	11.5	235
87	Nanoparticle-templated assembly of viral protein cages. <i>Nano Letters</i> , 2006 , 6, 611-5	11.5	199
86	Quantum dot encapsulation in viral capsids. <i>Nano Letters</i> , 2006 , 6, 1993-9	11.5	184
85	Self-assembled virus-like particles with magnetic cores. <i>Nano Letters</i> , 2007 , 7, 2407-16	11.5	153
84	Gold nanoparticles as spectroscopic enhancers for in vitro studies on single viruses. <i>Journal of the American Chemical Society</i> , 2003 , 125, 6374-5	16.4	147
83	Localization and visualization of a coxiella-type symbiont within the lone star tick, <i>Amblyomma americanum</i> . <i>Applied and Environmental Microbiology</i> , 2007 , 73, 6584-94	4.8	106
82	Mediation of <i>Cryptosporidium parvum</i> infection in vitro by mucin-like glycoproteins defined by a neutralizing monoclonal antibody. <i>Infection and Immunity</i> , 2000 , 68, 5167-75	3.7	104
81	Multifunctional Nanohybrids by Self-Assembly of Monodisperse Iron Oxide Nanoparticles and Nanolamellar MoS ₂ Plates. <i>Chemistry of Materials</i> , 2013 , 25, 2434-2440	9.6	88
80	Embryo fossilization is a biological process mediated by microbial biofilms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19360-5	11.5	86
79	Functionalization of monodisperse iron oxide NPs and their properties as magnetically recoverable catalysts. <i>Langmuir</i> , 2013 , 29, 466-73	4	83
78	Structure and magnetic properties of diluted magnetic metal oxides based on Cu-doped CeO ₂ nanopowders. <i>Ceramics International</i> , 2015 , 41, 1115-1119	5.1	82
77	Fabrication of magnetically recoverable catalysts based on mixtures of Pd and iron oxide nanoparticles for hydrogenation of alkyne alcohols. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21652-60	9.5	78
76	Solid polymer electrolytes which contain tricoordinate boron for enhanced conductivity and transference numbers. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1108-1116	13	76
75	Magnetic virus-like nanoparticles in <i>N. benthamiana</i> plants: a new paradigm for environmental and agronomic biotechnological research. <i>ACS Nano</i> , 2011 , 5, 4037-45	16.7	75
74	Hybrid composite polymer electrolytes: ionic liquids as a magic bullet for the poly(ethylene glycol) silica network. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3493-3502	13	72
73	Nanoparticles by decomposition of long chain iron carboxylates: from spheres to stars and cubes. <i>Langmuir</i> , 2011 , 27, 3044-50	4	67

72	Structure and Properties of Iron Oxide Nanoparticles Encapsulated by Phospholipids with Poly(ethylene glycol) Tails. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18078-18086	3.8	66
71	Optical Trapping with Integrated Near-Field Apertures. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13607-13612	3.1	64
70	The motility of a human parasite, <i>Toxoplasma gondii</i> , is regulated by a novel lysine methyltransferase. <i>PLoS Pathogens</i> , 2011 , 7, e1002201	7.6	63
69	TgMORN1 is a key organizer for the basal complex of <i>Toxoplasma gondii</i> . <i>PLoS Pathogens</i> , 2010 , 6, e1000754	7.4	61
68	Selective dehydrogenation of alcohols with poly(ethylene oxide)-block-poly-2-vinylpyridine micelles filled with Pd nanoparticles. <i>Journal of Molecular Catalysis A</i> , 2004 , 208, 273-284		59
67	Induced Microphase Separation in Hybrid Composite Polymer Electrolytes Based on Poly(acrylonitrile- <i>r</i> -butadienes) and Ionic Liquids. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 794-803	2.6	52
66	Synergistic effects of mutations and nanoparticle templating in the self-assembly of cowpea chlorotic mottle virus capsids. <i>Nano Letters</i> , 2009 , 9, 393-8	11.5	52
65	Packaging of gold particles in viral capsids. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 2029-331	3	52
64	Hydrophilic Monodisperse Magnetic Nanoparticles Protected by an Amphiphilic Alternating Copolymer. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16809-16817	3.8	49
63	Design of organic/inorganic solid polymer electrolytes: synthesis, structure, and properties. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1812-1820		49
62	Metalated diblock and triblock poly(ethylene oxide)-block-poly(4-vinylpyridine) copolymers: understanding of micelle and bulk structure. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 18786-98	3-4	43
61	Magnetic nanoparticles with functional silanes: evolution of well-defined shells from anhydride containing silane. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4231-4239		42
60	Occurrence and genotypic characteristics of <i>Enterocytozoon bieneusi</i> in pigs with diarrhea. <i>Parasitology Research</i> , 2007 , 102, 123-8	2.4	42
59	Ru-Containing Magnetically Recoverable Catalysts: A Sustainable Pathway from Cellulose to Ethylene and Propylene Glycols. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21285-93	9.5	41
58	Solid Polymer Single-Ion Conductors: Synthesis and Properties. <i>Chemistry of Materials</i> , 2006 , 18, 708-715	5.6	36
57	Hydrophilization of Magnetic Nanoparticles with Modified Alternating Copolymers. Part 1: The Influence of the Grafting. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21900-21907	3.8	35
56	Viruslike Nanoparticles with Magnetite Cores Allow for Enhanced MRI Contrast Agents. <i>Chemistry of Materials</i> , 2015 , 27, 327-335	9.6	31
55	Diel infection of a cyanobacterium by a contractile bacteriophage. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 4276-9	4.8	31

54	Palladium Containing Catalysts Based on Hypercrosslinked Polystyrene for Selective Hydrogenation of Acetylene Alcohols. <i>Topics in Catalysis</i> , 2012 , 55, 492-497	2.3	30
53	Functionalization of magnetic nanoparticles with amphiphilic block copolymers: self-assembled thermoresponsive submicrometer particles. <i>Langmuir</i> , 2012 , 28, 4142-51	4	24
52	The utilization of sodium taurocholate in excystation of <i>Cryptosporidium parvum</i> and infection of tissue culture. <i>Journal of Parasitology</i> , 2001 , 87, 997-1000	0.9	24
51	Synthesis of Metal-Loaded Poly(aminoethyl)(aminopropyl)silsesquioxane Colloids and Their Self-Organization into Dendrites. <i>Nano Letters</i> , 2002 , 2, 873-876	11.5	24
50	Molybdenum Sulfide Nanoparticles in Block Copolymer Micelles: Synthesis and Tribological Properties. <i>Chemistry of Materials</i> , 2004 , 16, 2369-2378	9.6	23
49	Pd(II) nanoparticles in porous polystyrene: factors influencing the nanoparticle size and catalytic properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6441		21
48	Controlled Synthesis of Novel Metalated Poly(aminoethyl)-(aminopropyl)silsesquioxane Colloids. <i>Langmuir</i> , 2003 , 19, 7071-7083	4	21
47	Transformations of poly(methoxy hexa(ethylene glycol) methacrylate)-b-(2-(diethylamino)ethyl methacrylate) block copolymer micelles upon metalation. <i>Langmuir</i> , 2005 , 21, 9747-55	4	20
46	Zinc-Containing Magnetic Oxides Stabilized by a Polymer: One Phase or Two?. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 891-9	9.5	19
45	Immobilized glucose oxidase on magnetic silica and alumina: Beyond magnetic separation. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 896-905	7.9	19
44	Hydrophilization of Magnetic Nanoparticles with Modified Alternating Copolymers. Part 2: Behavior in solution. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21908-21913	3.8	18
43	Hydrophobic Periphery Tails of Polyphenylenepyridyl Dendrons Control Nanoparticle Formation and Catalytic Properties. <i>Chemistry of Materials</i> , 2014 , 26, 5654-5663	9.6	17
42	Occurrence and characteristics of enterohemorrhagic <i>Escherichia coli</i> O26 and O111 in calves associated with diarrhea. <i>Veterinary Journal</i> , 2008 , 176, 205-9	2.5	16
41	Beyond Tryptophan Synthase: Identification of Genes That Contribute to <i>Chlamydia trachomatis</i> Survival during Gamma Interferon-Induced Persistence and Reactivation. <i>Infection and Immunity</i> , 2016 , 84, 2791-801	3.7	16
40	Coat Protein-Dependent Behavior of Poly(ethylene glycol) Tails in Iron Oxide Core Virus-like Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 12089-98	9.5	15
39	Mixed Co/Fe oxide nanoparticles in block copolymer micelles. <i>Langmuir</i> , 2008 , 24, 12618-26	4	15
38	Optical Implications of Crystallite Symmetry and Structure in Potassium Niobate Tellurite Glass Ceramics. <i>Chemistry of Materials</i> , 2002 , 14, 4422-4429	9.6	15
37	Facile Synthesis of Magnetically Recoverable Pd and Ru Catalysts for 4-Nitrophenol Reduction: Identifying Key Factors. <i>ACS Omega</i> , 2018 , 3, 14717-14725	3.9	15

36	Hybrid Polymer Particles with a Protective Shell: Synthesis, Structure, and Templating. <i>Chemistry of Materials</i> , 2006 , 18, 2418-2430	9.6	14
35	Genetic Screen in <i>Chlamydia muridarum</i> Reveals Role for an Interferon-Induced Host Cell Death Program in Antimicrobial Inclusion Rupture. <i>MBio</i> , 2019 , 10,	7.8	13
34	FeO Nanoparticle surface controls PtFe nanoparticle growth and catalytic properties. <i>Nanoscale</i> , 2013 , 5, 2921-7	7.7	13
33	Enhancing the Catalytic Activity of Zn-Containing Magnetic Oxides in a Methanol Synthesis: Identifying the Key Factors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2285-2294	9.5	12
32	Catalysts of Suzuki Cross-Coupling Based on Functionalized Hyper-cross-linked Polystyrene: Influence of Precursor Nature. <i>Organic Process Research and Development</i> , 2016 , 20, 1453-1460	3.9	12
31	Efficient Furfuryl Alcohol Synthesis from Furfural over Magnetically Recoverable Catalysts: Does the Catalyst Stabilizing Medium Matter?. <i>ChemistrySelect</i> , 2017 , 2, 5485-5491	1.8	12
30	Antimicrobial activity of a combination of <i>Mume fructus</i> , <i>Schizandrae fructus</i> , and <i>Coptidis rhizoma</i> on enterohemorrhagic <i>Escherichia coli</i> O26, O111, and O157 and its effect on Shiga toxin releases. <i>Foodborne Pathogens and Disease</i> , 2011 , 8, 643-6	3.8	11
29	Core-shell nanostructures from single poly(N-vinylcaprolactam) macromolecules: stabilization and visualization. <i>Langmuir</i> , 2005 , 21, 2652-5	4	11
28	Multicore iron oxide mesocrystals stabilized by a poly(phenylenepyridyl) dendron and dendrimer: role of the dendron/dendrimer self-assembly. <i>Langmuir</i> , 2014 , 30, 8543-50	4	10
27	Influence of heterogenization on catalytic behavior of mono- and bimetallic nanoparticles formed in poly(styrene)-block-poly(4-vinylpyridine) micelles. <i>Journal of Catalysis</i> , 2009 , 262, 150-158	7.3	10
26	Antimicrobial resistance of <i>Escherichia coli</i> O157 from cattle in Korea. <i>International Journal of Food Microbiology</i> , 2006 , 106, 74-8	5.8	10
25	Metal oxide zeolite composites in transformation of methanol to hydrocarbons: do iron oxide and nickel oxide matter?. <i>RSC Advances</i> , 2016 , 6, 75166-75177	3.7	10
24	Pyridylphenylene dendrons immobilized on the surface of chemically modified magnetic silica as efficient stabilizing molecules of Pd species. <i>Applied Surface Science</i> , 2019 , 488, 865-873	6.7	9
23	Structural Study of PtFe Nanoparticles: New Insights into Pt Bimetallic Nanoparticle Formation with Oxidized Fe Species. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24769-24775	3.8	9
22	Polyphenylenepyridyl dendrimers as stabilizing and controlling agents for CdS nanoparticle formation. <i>Nanoscale</i> , 2012 , 4, 2378-86	7.7	9
21	RNA synthesis by the bromo mosaic virus RNA-dependent RNA polymerase in human cells reveals requirements for de novo initiation and protein-protein interaction. <i>Journal of Virology</i> , 2012 , 86, 4317-27	6.6	9
20	Structure and behavior of nanoparticulate catalysts based on ultrathin chitosan layers. <i>Journal of Molecular Catalysis A</i> , 2007 , 276, 116-129		9
19	Inflammation-induced DNA methylation of DNA polymerase gamma alters the metabolic profile of colon tumors. <i>Cancer & Metabolism</i> , 2018 , 6, 9	5.4	8

18	The effect of lectins on <i>Cryptosporidium parvum</i> oocyst in vitro attachment to host cells. <i>Journal of Parasitology</i> , 2006 , 92, 1-9	0.9	8
17	Pd Catalyst Based on Hyperbranched Polypyridylphenylene Formed In Situ on Magnetic Silica Allows for Excellent Performance in Suzuki-Miyaura Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22170-22178	9.5	7
16	Insights into Sustainable Glucose Oxidation Using Magnetically Recoverable Biocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9845-9853	8.3	7
15	Restricted Localization of Photosynthetic Intracytoplasmic Membranes (ICMs) in Multiple Genera of Purple Nonsulfur Bacteria. <i>MBio</i> , 2018 , 9,	7.8	7
14	Glucose Oxidase Immobilized on Magnetic Zirconia: Controlling Catalytic Performance and Stability. <i>ACS Omega</i> , 2020 , 5, 12329-12338	3.9	6
13	Elastomer based nanocomposites with reduced graphene oxide nanofillers allow for enhanced tensile and electrical properties. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	6
12	Pd Nanoparticles Stabilized by Hypercrosslinked Polystyrene Catalyze Selective Triple C-C Bond Hydrogenation and Suzuki Cross-Coupling. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-7	3.2	5
11	Influence of the Mesoporous Polymer Matrix Nature on the Formation of Catalytically Active Ruthenium Nanoparticles. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2015 , 10,	1.7	5
10	Morphology of hybrid polystyrene-block-poly(ethylene oxide) micelles: analytical ultracentrifugation and SANS studies. <i>Journal of Colloid and Interface Science</i> , 2006 , 299, 944-52	9.3	5
9	Zn Ion Surface Enrichment in Doped Iron Oxide Nanoparticles Leads to Charge Carrier Density Enhancement. <i>ACS Omega</i> , 2018 , 3, 16328-16337	3.9	5
8	Functional polymer colloids with ordered interior. <i>Langmuir</i> , 2004 , 20, 1100-10	4	4
7	Cr ^{III} -Containing Magnetic Oxides in a Methanol Synthesis: Does Cr Ion Distribution Matter?. <i>ChemistrySelect</i> , 2017 , 2, 6269-6276	1.8	3
6	Synthesis of 4-Methoxybiphenyl Using Pd-Containing Catalysts Based on Polymeric Matrix of Functionalized Hypercrosslinked Polystyrene. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2015 , 10,	1.7	3
5	Genome copy number regulates inclusion expansion, septation, and infectious developmental form conversion in. <i>Journal of Bacteriology</i> , 2021 ,	3.5	3
4	Clustering of Iron Oxide Nanoparticles with Amphiphilic Invertible Polymer Enhances Uptake and Release of Drugs and MRI Properties. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900112	3.1	2
3	D-glucose catalytic oxidation over palladium nanoparticles introduced in the hypercrosslinked polystyrene matrix. <i>Green Processing and Synthesis</i> , 2013 , 2,	3.9	1
2	Solution study of novel diblock copolymers: Morphology and structural transition. <i>Polymer</i> , 2013 , 54, 6971-6978	3.9	1
1	Chitosan as capping agent in a robust one-pot procedure for a magnetic catalyst synthesis. <i>Carbohydrate Polymers</i> , 2021 , 269, 118267	10.3	

