Dale L Huber

List of Publications by Year
in descending order

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Version: 2024-02-01

92	5,059	186265	88630
papers	citations	28 h-index	70 g-index

94	94	94	7695
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis, Properties, and Applications of Iron Nanoparticles. Small, 2005, 1, 482-501.	10.0	1,245
2	Programmed Adsorption and Release of Proteins in a Microfluidic Device. Science, 2003, 301, 352-354.	12.6	518
3	Soft magnetic materials for a sustainable and electrified world. Science, 2018, 362, .	12.6	501
4	Synthesis and Characterization of Titaniaâ˜Graphene Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 19812-19823.	3.1	372
5	In Situ Transmission Electron Microscopy Observation of Pulverization of Aluminum Nanowires and Evolution of the Thin Surface Al₂O₃ Layers during Lithiationâ€“Delithiation Cycles. Nano Letters, 2011, 11, 4188-4194.	9.1	263
6	Templateless Assembly of Molecularly Aligned Conductive Polymer Nanowires: A New Approach for Oriented Nanostructures. Chemistry - A European Journal, 2003, 9, 604-611.	3.3	207
7	Enhanced Nanoparticle Size Control by Extending LaMerâ€™s Mechanism. Chemistry of Materials, 2015, 27, 6059-6066.	6.7	195
8	A single-Pt-atom-on-Ru-nanoparticle electrocatalyst for CO-resilient methanol oxidation. Nature Catalysis, 2022, 5, 231-237.	34.4	133
9	Detection of breast cancer cells using targeted magnetic nanoparticles and ultra-sensitive magnetic field sensors. Breast Cancer Research, 2011, 13, R108.	5.0	117
10	Antibacterial activity of iron oxide, iron nitride, and tobramycin conjugated nanoparticles against Pseudomonas aeruginosa biofilms. Journal of Nanobiotechnology, 2020, 18, 35.	9.1	109
11	Conformation of End-Tethered PNIPAM Chains in Water and in Acetone by Neutron Reflectivity. Macromolecules, 2003, 36, 5244-5251.	4.8	103
12	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for Highâ€Activity Electrocatalytic Oxidation of Biomass. Angewandte Chemie - International Edition, 2020, 59, 15487-15491.	13.8	83
13	Imaging of Her2â€targeted magnetic nanoparticles for breast cancer detection: comparison of SQUIDâ€detected magnetic relaxometry and MRI. Contrast Media and Molecular Imaging, 2012, 7, 308-319.	0.8	80
14	Reversible Control of Electrochemical Properties Using Thermallyâ€Responsive Polymer Electrolytes. Advanced Materials, 2012, 24, 886-889.	21.0	54
15	Formation of Branched Ruthenium Nanoparticles for Improved Electrocatalysis of Oxygen Evolution Reaction. Small, 2019, 15, e1804577.	10.0	54
16	Characterization of single-core magnetite nanoparticles for magnetic imaging by SQUID relaxometry. Physics in Medicine and Biology, 2010, 55, 5985-6003.	3.0	53
17	Multifunctional iron platinum stealth immunomicelles: targeted detection of human prostate cancer cells using both fluorescence and magnetic resonance imaging. Journal of Nanoparticle Research, 2011, 13, 4717-4729.	1.9	51
18	Poly(N-isopropylacrylamide) Surfactant-Functionalized Responsive Silver Nanoparticles and Superlattices. ACS Nano, 2014, 8, 4799-4804.	14.6	44

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19	Size Effects in the Electrochemical Alloying and Cycling of Electrodeposited Aluminum with Lithium. Journal of the Electrochemical Society, 2012, 159, A688-A695.	2.9	43
20	Synthesis of highly magnetic iron nanoparticles suitable for field structuring using a Î²-diketone surfactant. Journal of Magnetism and Magnetic Materials, 2004, 278, 311-316.	2.3	41
21	Characterization of magnetite nanoparticles for SQUID-relaxometry and magnetic needle biopsy. Journal of Magnetism and Magnetic Materials, 2009, 321, 1459-1464.	2.3	39
22	Iron Oxide Nanocrystals for Magnetic Hyperthermia Applications. Nanomaterials, 2012, 2, 134-146.	4.1	39
23	Magnetic Tunability in RE-DOBDC MOFs via NO_x Acid Gas Adsorption. ACS Applied Materials & Interfaces, 2020, 12, 19504-19510.	8.0	39
24	Switching Surface Chemistry with Supramolecular Machines. Langmuir, 2007, 23, 31-34.	3.5	38
25	Exploring Lateral Microphase Separation in Mixed Polymer Brushes by Experiment and Self-Consistent Field Theory Simulations. Macromolecules, 2012, 45, 510-524.	4.8	38
26	Generation-After-Next Power Electronics: Ultrawide-bandgap devices, high-temperature packaging, and magnetic nanocomposite materials. IEEE Power Electronics Magazine, 2017, 4, 36-42.	0.7	36
27	Effect of Seed Age on Gold Nanorod Formation: A Microfluidic, Real-Time Investigation. Chemistry of Materials, 2015, 27, 6442-6449.	6.7	34
28	Interactions of Endoglucanases with Amorphous Cellulose Films Resolved by Neutron Reflectometry and Quartz Crystal Microbalance with Dissipation Monitoring. Langmuir, 2012, 28, 8348-8358.	3.5	29
29	Self-consistent field simulations of self- and directed-assembly in a mixed polymer brush. Soft Matter, 2011, 7, 8776.	2.7	28
30	Greater than the sum: Synergy and emergent properties in nanoparticleâ€“polymer composites. MRS Bulletin, 2015, 40, 760-767.	3.5	26
31	Magnetic relaxometry as applied to sensitive cancer detection and localization. Biomedizinische Technik, 2015, 60, 445-55.	0.8	26
32	Non-volatile iron carbonyls as versatile precursors for the synthesis of iron-containing nanoparticles. Nanoscale, 2017, 9, 6632-6637.	5.6	26
33	Large enhancements of magnetic anisotropy in oxide-free iron nanoparticles. Journal of Magnetism and Magnetic Materials, 2013, 331, 156-161.	2.3	22
34	Self-Assembled Layering of Magnetic Nanoparticles in a Ferrofluid on Silicon Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 5050-5060.	8.0	22
35	Effects of Water and Temperature on Conformational Order in Model Nylon Thin Films. Journal of Physical Chemistry C, 2009, 113, 13723-13731.	3.1	20
36	Structural and magnetic characterization of superparamagnetic iron platinum nanoparticle contrast agents for magnetic resonance imaging. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 02C101.	1.2	20

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37	Nanostructured Lithium-Aluminum Alloy Electrodes for Lithium-Ion Batteries. ECS Transactions, 2011, 33, 1-13.	0.5	19
38	Facettierte verzweigte Nickelâ€Nanopartikel mit variierbarer VerzweigungslÃnge fÃ¼r die hochaktive elektrokatalytische Oxidation von Biomasse. Angewandte Chemie, 2020, 132, 15615-15620.	2.0	18
39	Magnetic properties of nanoparticles useful for SQUID relaxometry in biomedical applications. Journal of Magnetism and Magnetic Materials, 2011, 323, 767-774.	2.3	17
40	Reversible Magnetic Agglomeration: A Mechanism for Thermodynamic Control over Nanoparticle Size. Angewandte Chemie - International Edition, 2018, 57, 7678-7681.	13.8	17
41	Self-assembly in a mixed polymer brush with inhomogeneous grafting density composition. Soft Matter, 2013, 9, 5341.	2.7	16
42	Off-Resonance Photosensitization of a Photorefractive Polymer Composite Using PbS Nanocrystals. Journal of Physical Chemistry C, 2015, 119, 13827-13835.	3.1	15
43	Soft matter and nanomaterials characterization by cryogenic transmission electron microscopy. MRS Bulletin, 2019, 44, 942-948.	3.5	15
44	Phase Behavior of Ternary Polymer Brushes. ACS Macro Letters, 2016, 5, 149-153.	4.8	14
45	Nanoscale Patterning of Membrane-Bound Proteins Formed through Curvature-Induced Partitioning of Phase-Specific Receptor Lipids. Langmuir, 2013, 29, 6109-6115.	3.5	13
46	Highly stable multi-anchored magnetic nanoparticles for optical imaging within biofilms. Journal of Colloid and Interface Science, 2015, 459, 175-182.	9.4	13
47	Giant magnetic susceptibility enhancement in field-structured nanocomposites. Journal of Magnetism and Magnetic Materials, 2008, 320, 2221-2227.	2.3	12
48	Development of Antibody-Tagged Nanoparticles for Detection of Transplant Rejection Using Biomagnetic Sensors. Cell Transplantation, 2013, 22, 1943-1954.	2.5	12
49	Sub-Millisecond Response Time in a Photorefractive Composite Operating under CW Conditions. Scientific Reports, 2016, 6, 30810.	3.3	11
50	Unravelling Magnetic Nanochain Formation in Dispersion for In Vivo Applications. Advanced Materials, 2021, 33, e2008683.	21.0	11
51	Assay for lignin breakdown based on lignin films: insights into the Fenton reaction with insoluble lignin. Green Chemistry, 2015, 17, 4830-4845.	9.0	10
52	Gram scale synthesis of Fe/FexOy coreâ€“shell nanoparticles and their incorporation into matrix-free superparamagnetic nanocomposites. Journal of Materials Research, 2018, 33, 2156-2167.	2.6	10
53	Thermally Programmable pH Buffers. ACS Applied Materials & Interfaces, 2012, 4, 6247-6251.	8.0	7
54	A simple low-cost synthesis of brookite TiO2 nanoparticles. Journal of Materials Research, 2013, 28, 348-353.	2.6	7

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55	Magnetically Recoverable Pd/Fe₃O₄ Coreâ€“Shell Nanowire Clusters with Increased Hydrogenation Activity. ChemPlusChem, 2017, 82, 347-351.	2.8	7
56	Formation of Metal Nanoparticles Directly from Bulk Sources Using Ultrasound and Application to Eâ€Waste Upcycling. Small, 2018, 14, 1703615.	10.0	7
57	Implication of Ligand Choice on Surface Properties, Crystal Structure, and Magnetic Properties of Iron Nanoparticles. Particle and Particle Systems Characterization, 2013, 30, 258-265.	2.3	6
58	Switchable electrolyte properties and redox chemistry in aqueous media based on temperature-responsive polymers. Journal of Applied Electrochemistry, 2015, 45, 921-930.	2.9	6
59	Magnetic Nanocomposites and Their Incorporation into Higher Order Biosynthetic Functional Architectures. ACS Omega, 2018, 3, 503-508.	3.5	6
60	Reversible Magnetic Agglomeration: A Mechanism for Thermodynamic Control over Nanoparticle Size. Angewandte Chemie, 2018, 130, 7804-7807.	2.0	5
61	The Formation of Polymer Monolayers: From Adsorption to Surface Initiated Polymerizations. , 1997, , 107-122.		5
62	Finite element modeling of nanoscale-enabled microinductors for power electronics. Journal of Materials Research, 2018, 33, 2223-2233.	2.6	4
63	ADMET polymerization in affordable, commercially available, high boiling solvents. SN Applied Sciences, 2020, 2, 1.	2.9	4
64	Incorporation of bioactive materials into integrated systems. , 2003, 5220, 28.		3
65	Controlled polymer monolayer synthesis by radical transfer to surface immobilized transfer agents. Polymer Chemistry, 2013, 4, 1565-1574.	3.9	3
66	Templated synthesis enhances the cobalt adsorption capacity of a porous organic polymer. Nanoscale, 2022, 14, 299-304.	5.6	3
67	Synthesis, Properties, and Applications of Iron Nanoparticles. ChemInform, 2005, 36, no.	0.0	2
68	Controlling anisotropy in stereolithographically printed polymers. Journal of Materials Science, 2019, 54, 2763-2765.	3.7	2
69	Iron Nanoparticles. , 2008, , 1681-1687.		2
70	Synthesis and characterization of colloidal ZnTe/ZnS quantum dots. , 2019, , .		2
71	Field-based simulations of directed self-assembly in a mixed brush system. , 2010, , .		1
72	Multifunctional superparamagnetic nanoparticles for enhanced drug transport in cystic fibrosis. , 2012, , .		1

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73	Highly efficient multifunctional MnSe/ZnSeS quantum dots for biomedical applications. Proceedings of SPIE, 2013, , .	0.8	1
74	Effects of iron-oxide nanoparticles and magnetic fields on oral biofilms. Proceedings of SPIE, 2017, , .	0.8	1
75	Phase-sensitive small-angle neutron scattering experiment. Journal of Physics Communications, 2018, 2, 095018.	1.2	1
76	Detection and measurement of HER2+ breast cancer cells using tumor-targeted iron oxide nanoparticles and magnetic relaxometry.. Journal of Clinical Oncology, 2018, 36, e13019-e13019.	1.6	1
77	Characterization of Polymer Brushes on Nanoparticle Surfaces. , 2005, , 213-230.		0
78	Multifunctional superparamagnetic nanocrystals for imaging and targeted drug delivery to the lung. , 2012, , .		0
79	Delivery of tobramycin coupled to iron oxide nanoparticles across the biofilm of mucoidal Pseudonomas aeruginosa and investigation of its efficacy. , 2014, , .		0
80	Titelbild: Reversible Magnetic Agglomeration: A Mechanism for Thermodynamic Control over Nanoparticle Size (Angew. Chem. 26/2018). Angewandte Chemie, 2018, 130, 7657-7657.	2.0	0
81	Perspective: altering structure in a hierarchically assembled magnetic nanocomposite to rapidly tune optical reflection. Journal of Materials Science, 2019, 54, 8059-8062.	3.7	0
82	Design and Evaluation of Nano-Composite Core Inductors for Efficiency Improvement in High-Frequency Power Converters. , 2020, , .		0
83	In-situ Electron Microscopy to Inform Superior Magnetic Nanocomposites. Microscopy and Microanalysis, 2020, 26, 2554-2555.	0.4	0
84	Luminescence thermometry for detection of optical cooling from colloidal quantum dots embedded in dielectric waveguides. , 2021, , .		0
85	Abstract 4239: Monitoringin vivobiodistribution of superparamagnetic nanoparticles using superparamagnetic relaxometry (SPMR). , 2016, , .		0
86	Abstract P4-01-08: Specific detection of anti-Her2 PEGylated PrecisionMRXÂ® nanoparticles measured using superparamagnetic relaxometry. , 2017, , .		0
87	Abstract 2859: Sensitive, specific detection of Her-2 positive tumors in mice using superparamagnetic relaxometry (SPMR). , 2017, , .		0
88	Effects of iron-oxide nanoparticles on compound biofilms of streptococcus gordonii and fusobacterium nucleatum. , 2018, , .		0
89	Synthesis and characterization of colloidal ZnTe nanocrystals and ZnTe/ZnSe quantum dots. , 2018, , .		0
90	Anti-Stokes photoluminescence and optical cooling of CdSeS/ZnS colloidal quantum dots embedded in dielectric waveguides. , 2020, , .		0

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91	Synthesis and characterization of near-infrared PbSe/SnS colloidal core-shell quantum dots. , 2020, , .		0
92	Synthesis and characterization of colloidal CdSexS1-x/ZnS quantum dots. , 2020, , .		0