

Tracy M Mattox

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

6,910
citations

101543

36
h-index

62596

80
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83
all docs

83
docs citations

83
times ranked

10031
citing authors

#	ARTICLE	IF	CITATIONS
1	Dimensional Control over Metal Halide Perovskite Crystallization Guided by Active Learning. <i>Chemistry of Materials</i> , 2022, 34, 756-767.	6.7	13
2	Hydrogen Storage Performance of Preferentially Oriented Mg/rGO Hybrids. <i>Chemistry of Materials</i> , 2022, 34, 2963-2971.	6.7	8
3	Covalent Organic Frameworks with Irreversible Linkages via Reductive Cyclization of Imines. <i>Journal of the American Chemical Society</i> , 2022, 144, 9827-9835.	13.7	39
4	Iron(III) Dopant Counterions Affect the Charge-Transport Properties of Poly(Thiophene) and Poly(Dialkoxythiophene) Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29039-29051.	8.0	5
5	Lightweight wearable thermoelectric cooler with rationally designed flexible heatsink consisting of phase-change material/graphite/silicone elastomer. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15696-15703.	10.3	35
6	Structural and spectroscopic characterization of an einsteinium complex. <i>Nature</i> , 2021, 590, 85-88.	27.8	25
7	Solar Desalination Using Thermally Responsive Ionic Liquids Regenerated with a Photonic Heater. <i>Environmental Science & Technology</i> , 2021, 55, 3260-3269.	10.0	20
8	Melting Point Depression and Phase Identification of Sugar Alcohols Encapsulated in ZIF Nanopores. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10001-10010.	3.1	2
9	Modifying Li ⁺ and Anion Diffusivities in Polyacetal Electrolytes: A Pulsed-Field-Gradient NMR Study of Ion Self-Diffusion. <i>Chemistry of Materials</i> , 2021, 33, 4915-4926.	6.7	21
10	Insights into the Mechanism of Methanol Steam Reforming Tandem Reaction over CeO ₂ Supported Single-Site Catalysts. <i>Journal of the American Chemical Society</i> , 2021, 143, 12074-12081.	13.7	70
11	Exchange Bias in a Layered Metal-Organic Topological Spin Glass. <i>ACS Central Science</i> , 2021, 7, 1317-1326.	11.3	17
12	Defying Thermodynamics: Stabilization of Alane Within Covalent Triazine Frameworks for Reversible Hydrogen Storage. <i>Angewandte Chemie</i> , 2021, 133, 26019-26028.	2.0	2
13	Defying Thermodynamics: Stabilization of Alane Within Covalent Triazine Frameworks for Reversible Hydrogen Storage. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25815-25824.	13.8	11
14	Additive Destabilization of Porous Magnesium Borohydride Framework with Core-Shell Structure. <i>Small</i> , 2021, 17, e2101989.	10.0	6
15	Stabilized open metal sites in bimetallic metal-organic framework catalysts for hydrogen production from alcohols. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10869-10881.	10.3	20
16	Interfacial Solar Evaporation by a 3D Graphene Oxide Stalk for Highly Concentrated Brine Treatment. <i>Environmental Science & Technology</i> , 2021, 55, 15435-15445.	10.0	62
17	A Mechanistic Analysis of Phase Evolution and Hydrogen Storage Behavior in Nanocrystalline Mg(BH ₄) ₂ within Reduced Graphene Oxide. <i>ACS Nano</i> , 2020, 14, 1745-1756.	14.6	29
18	High-Performance, Wearable Thermoelectric Generator Based on a Highly Aligned Carbon Nanotube Sheet. <i>ACS Applied Energy Materials</i> , 2020, 3, 1199-1206.	5.1	43

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37	Chloride influence on the reaction mechanism of lanthanum hexaboride. <i>Journal of Crystal Growth</i> , 2019, 518, 30-33.	1.5	0
38	Edge-Functionalized Graphene Nanoribbon Encapsulation To Enhance Stability and Control Kinetics of Hydrogen Storage Materials. <i>Chemistry of Materials</i> , 2019, 31, 2960-2970.	6.7	26
39	Progress and Perspective: Soft Thermoelectric Materials for Wearable and Internet of Things Applications. <i>Advanced Electronic Materials</i> , 2019, 5, 1800823.	5.1	71
40	In Situ/Operando X-ray Characterization of Metal Hydrides. <i>ChemPhysChem</i> , 2019, 20, 1261-1271.	2.1	12
41	Enhanced Forward Osmosis Desalination with a Hybrid Ionic Liquid/Hydrogel Thermoresponsive Draw Agent System. <i>ACS Omega</i> , 2019, 4, 4296-4303.	3.5	25
42	Experimental Phonon Dispersion and Lifetimes of Tetragonal CH ₃ NH ₃ PbI ₃ Perovskite Crystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1-6.	4.6	15
43	Modulation of Carrier Type in Nanocrystal-in-Matrix Composites by Interfacial Doping. <i>Chemistry of Materials</i> , 2018, 30, 2544-2549.	6.7	1
44	Tuning the Surface Plasmon Resonance of Lanthanum Hexaboride to Absorb Solar Heat: A Review. <i>Materials</i> , 2018, 11, 2473.	2.9	30
45	Nanostructured Metal Hydrides for Hydrogen Storage. <i>Chemical Reviews</i> , 2018, 118, 10775-10839.	47.7	461
46	Removal and Recovery of Heavy Metal Ions by Two-dimensional MoS ₂ Nanosheets: Performance and Mechanisms. <i>Environmental Science & Technology</i> , 2018, 52, 9741-9748.	10.0	177
47	Moving the Plasmon of LaB ₆ from IR to Near-IR via Eu-Doping. <i>Materials</i> , 2018, 11, 226.	2.9	18
48	Chloride influence on the formation of lanthanum hexaboride: An in-situ diffraction study. <i>Journal of Crystal Growth</i> , 2018, 486, 60-65.	1.5	7
49	An assessment of strategies for the development of solid-state adsorbents for vehicular hydrogen storage. <i>Energy and Environmental Science</i> , 2018, 11, 2784-2812.	30.8	162
50	Design Rules for Self-Assembly of 2D Nanocrystal/Metal-Organic Framework Superstructures. <i>Angewandte Chemie</i> , 2018, 130, 13356-13360.	2.0	1
51	Solution-Processed Cu ₂ Se Nanocrystal Films with Bulk-Like Thermoelectric Performance. <i>Scientific Reports</i> , 2017, 7, 2765.	3.3	24
52	Effects of Size and Structural Defects on the Vibrational Properties of Lanthanum Hexaboride Nanocrystals. <i>ACS Omega</i> , 2017, 2, 2248-2254.	3.5	9
53	Swelling of Graphene Oxide Membranes in Aqueous Solution: Characterization of Interlayer Spacing and Insight into Water Transport Mechanisms. <i>ACS Nano</i> , 2017, 11, 6440-6450.	14.6	552
54	Emerging Scientific and Engineering Opportunities within the Water-Energy Nexus. <i>Joule</i> , 2017, 1, 665-688.	24.0	109

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55	Dual-Channel, Molecular-Sieving Core/Shell ZIF@MOF Architectures as Engineered Fillers in Hybrid Membranes for Highly Selective CO ₂ Separation. Nano Letters, 2017, 17, 6752-6758.	9.1	82
56	Nanorod Suprastructures from a Ternary Graphene Oxide-Polymer-CsPbX ₃ Perovskite Nanocrystal Composite That Display High Environmental Stability. Nano Letters, 2017, 17, 6759-6765.	9.1	118
57	Hierarchically Controlled Inside-Out Doping of Mg Nanocomposites for Moderate Temperature Hydrogen Storage. Advanced Functional Materials, 2017, 27, 1704316.	14.9	72
58	Long-Range Order in Nanocrystal Assemblies Determines Charge Transport of Films. ACS Omega, 2017, 2, 3681-3690.	3.5	10
59	Atomically Thin Interfacial Suboxide Key to Hydrogen Storage Performance Enhancements of Magnesium Nanoparticles Encapsulated in Reduced Graphene Oxide. Nano Letters, 2017, 17, 5540-5545.	9.1	37
60	Anion-mediated negative thermal expansion in lanthanum hexaboride. Solid State Communications, 2017, 265, 47-51.	1.9	11
61	Independent tuning of work function and field enhancement factor in hybrid lanthanum hexaboride-graphene-silicon field emitters. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, 062202.	1.2	6
62	Understanding the Aqueous Stability and Filtration Capability of MoS ₂ Membranes. Nano Letters, 2017, 17, 7289-7298.	9.1	283
63	Tailoring Polymer Conformation for Nanocrystal Growth: The Role of Chain Length and Solvent. Small, 2017, 13, 1602572.	10.0	6
64	Carrier Scattering at Alloy Nanointerfaces Enhances Power Factor in PEDOT:PSS Hybrid Thermoelectrics. Nano Letters, 2016, 16, 3352-3359.	9.1	93
65	Insight into the Ligand-Mediated Synthesis of Colloidal CsPbBr ₃ Perovskite Nanocrystals: The Role of Organic Acid, Base, and Cesium Precursors. ACS Nano, 2016, 10, 7943-7954.	14.6	713
66	Graphene oxide/metal nanocrystal multilaminates as the atomic limit for safe and selective hydrogen storage. Nature Communications, 2016, 7, 10804.	12.8	178
67	Evolution of Vibrational Properties in Lanthanum Hexaboride Nanocrystals. Journal of Physical Chemistry C, 2016, 120, 5188-5195.	3.1	18
68	Enhanced permeation arising from dual transport pathways in hybrid polymer-MOF membranes. Energy and Environmental Science, 2016, 9, 922-931.	30.8	178
69	Chemical Control of Plasmons in Metal Chalcogenide and Metal Oxide Nanostructures. Advanced Materials, 2015, 27, 5830-5837.	21.0	98
70	Bandgap Tunability in Sb-Alloyed BiVO ₄ Quaternary Oxides as Visible Light Absorbers for Solar Fuel Applications. Advanced Materials, 2015, 27, 6733-6740.	21.0	38
71	Nanocomposite Architecture for Rapid, Spectrally-Selective Electrochromic Modulation of Solar Transmittance. Nano Letters, 2015, 15, 5574-5579.	9.1	179
72	Nanocrystal Superlattice Embedded within an Inorganic Semiconducting Matrix by in Situ Ligand Exchange: Fabrication and Morphology. Chemistry of Materials, 2015, 27, 2755-2758.	6.7	10

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73	Low Temperature Synthesis and Surface Plasmon Resonance of Colloidal Lanthanum Hexaboride (LaB ₆) Nanocrystals. Chemistry of Materials, 2015, 27, 6620-6624.	6.7	46
74	Influence of Shape on the Surface Plasmon Resonance of Tungsten Bronze Nanocrystals. Chemistry of Materials, 2014, 26, 1779-1784.	6.7	133
75	Uncovering the intrinsic size dependence of hydriding phase transformations in nanocrystals. Nature Materials, 2013, 12, 905-912.	27.5	116
76	Synergistic enhancement of hydrogen storage and air stability via Mg nanocrystal-polymer interfacial interactions. Energy and Environmental Science, 2013, 6, 3267.	30.8	52
77	Monodisperse Sn Nanocrystals as a Platform for the Study of Mechanical Damage during Electrochemical Reactions with Li. Nano Letters, 2013, 13, 1800-1805.	9.1	134
78	Magnesium nanocrystal-polymer composites: A new platform for designer hydrogen storage materials. Energy and Environmental Science, 2011, 4, 4882.	30.8	105
79	Air-stable magnesium nanocomposites provide rapid and high-capacity hydrogen storage without using heavy-metal catalysts. Nature Materials, 2011, 10, 286-290.	27.5	600
80	Synergism in binary nanocrystal superlattices leads to enhanced p-type conductivity in self-assembled PbTe/Ag ₂ Te thin films. Nature Materials, 2007, 6, 115-121.	27.5	498
81	Stability and Porosity Enhancement through Concurrent Ligand Extension and Secondary Building Unit Stabilization. Inorganic Chemistry, 2006, 45, 7566-7568.	4.0	90
82	Temperature-dependent supramolecular stereoisomerism in porous copper coordination networks based on a designed carboxylate ligand. Chemical Communications, 2005, , 5447.	4.1	176