

Tracy M Mattox

List of Publications by Year in descending order

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82
papers

6,910
citations

101543

36
h-index

62596

80
g-index

83
all docs

83
docs citations

83
times ranked

10031
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Swelling of Graphene Oxide Membranes in Aqueous Solution: Characterization of Interlayer Spacing and Insight into Water Transport Mechanisms. ACS Nano, 2017, 11, 6440-6450.	14.6	552
4	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
5	Nanostructured Metal Hydrides for Hydrogen Storage. Chemical Reviews, 2018, 118, 10775-10839.	47.7	461
6	Understanding the Aqueous Stability and Filtration Capability of MoS ₂ Membranes. Nano Letters, 2017, 17, 7289-7298.	9.1	283
7	Nanocomposite Architecture for Rapid, Spectrally-Selective Electrochromic Modulation of Solar Transmittance. Nano Letters, 2015, 15, 5574-5579.	9.1	179
8	Graphene oxide/metal nanocrystal multilaminates as the atomic limit for safe and selective hydrogen storage. Nature Communications, 2016, 7, 10804.	12.8	178
9	Enhanced permeation arising from dual transport pathways in hybrid polymer-MOF membranes. Energy and Environmental Science, 2016, 9, 922-931.	30.8	178
10	Removal and Recovery of Heavy Metal Ions by Two-dimensional MoS ₂ Nanosheets: Performance and Mechanisms. Environmental Science & Technology, 2018, 52, 9741-9748.	10.0	177
11	Temperature-dependent supramolecular stereoisomerism in porous copper coordination networks based on a designed carboxylate ligand. Chemical Communications, 2005, , 5447.	4.1	176
12	An assessment of strategies for the development of solid-state adsorbents for vehicular hydrogen storage. Energy and Environmental Science, 2018, 11, 2784-2812.	30.8	162
13	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
14	Influence of Shape on the Surface Plasmon Resonance of Tungsten Bronze Nanocrystals. Chemistry of Materials, 2014, 26, 1779-1784.	6.7	133
15	Dynamic Covalent Synthesis of Crystalline Porous Graphitic Frameworks. Chem, 2020, 6, 933-944.	11.7	123
16	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
17	Uncovering the intrinsic size dependence of hydriding phase transformations in nanocrystals. Nature Materials, 2013, 12, 905-912.	27.5	116
18	Emerging Scientific and Engineering Opportunities within the Water-Energy Nexus. Joule, 2017, 1, 665-688.	24.0	109

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19	Magnesium nanocrystal-polymer composites: A new platform for designer hydrogen storage materials. <i>Energy and Environmental Science</i> , 2011, 4, 4882.	30.8	105
20	Chemical Control of Plasmons in Metal Chalcogenide and Metal Oxide Nanostructures. <i>Advanced Materials</i> , 2015, 27, 5830-5837.	21.0	98
21	Carrier Scattering at Alloy Nanointerfaces Enhances Power Factor in PEDOT:PSS Hybrid Thermoelectrics. <i>Nano Letters</i> , 2016, 16, 3352-3359.	9.1	93
22	Stability and Porosity Enhancement through Concurrent Ligand Extension and Secondary Building Unit Stabilization. <i>Inorganic Chemistry</i> , 2006, 45, 7566-7568.	4.0	90
23	Superselective Removal of Lead from Water by Two-Dimensional MoS ₂ Nanosheets and Layer-Stacked Membranes. <i>Environmental Science & Technology</i> , 2020, 54, 12602-12611.	10.0	87
24	A nature-inspired hydrogen-bonded supramolecular complex for selective copper ion removal from water. <i>Nature Communications</i> , 2020, 11, 3947.	12.8	86
25	Dual-Channel, Molecular-Sieving Core/Shell ZIF@MOF Architectures as Engineered Fillers in Hybrid Membranes for Highly Selective CO ₂ Separation. <i>Nano Letters</i> , 2017, 17, 6752-6758.	9.1	82
26	Correlating Interlayer Spacing and Separation Capability of Graphene Oxide Membranes in Organic Solvents. <i>ACS Nano</i> , 2020, 14, 6013-6023.	14.6	81
27	Hydrogen-Bonded Polyimide/Metal-Organic Framework Hybrid Membranes for Ultrafast Separations of Multiple Gas Pairs. <i>Advanced Functional Materials</i> , 2019, 29, 1903243.	14.9	78
28	Hierarchically Controlled Inside-Out Doping of Mg Nanocomposites for Moderate Temperature Hydrogen Storage. <i>Advanced Functional Materials</i> , 2017, 27, 1704316.	14.9	72
29	Progress and Perspective: Soft Thermoelectric Materials for Wearable and Internet-of-Things Applications. <i>Advanced Electronic Materials</i> , 2019, 5, 1800823.	5.1	71
30	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
31	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
32	Synergistic enhancement of hydrogen storage and air stability via Mg nanocrystal-polymer interfacial interactions. <i>Energy and Environmental Science</i> , 2013, 6, 3267.	30.8	52
33	Low Temperature Synthesis and Surface Plasmon Resonance of Colloidal Lanthanum Hexaboride (LaB ₆) Nanocrystals. <i>Chemistry of Materials</i> , 2015, 27, 6620-6624.	6.7	46
34	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
35	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
36	Bandgap Tunability in Sb-Alloyed BiVO ₄ Quaternary Oxides as Visible Light Absorbers for Solar Fuel Applications. <i>Advanced Materials</i> , 2015, 27, 6733-6740.	21.0	38

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55	Moving the Plasmon of LaB6 from IR to Near-IR via Eu-Doping. <i>Materials</i> , 2018, 11, 226.	2.9	18
56	Enhanced Charge Carrier Transport in 2D Perovskites by Incorporating Single-Walled Carbon Nanotubes or Graphene. <i>ACS Energy Letters</i> , 2020, 5, 109-116.	17.4	17
57	Exchange Bias in a Layered Metal-Organic Topological Spin Glass. <i>ACS Central Science</i> , 2021, 7, 1317-1326.	11.3	17
58	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
59	Dimensional Control over Metal Halide Perovskite Crystallization Guided by Active Learning. <i>Chemistry of Materials</i> , 2022, 34, 756-767.	6.7	13
60	In-Situ/Operando X-ray Characterization of Metal Hydrides. <i>ChemPhysChem</i> , 2019, 20, 1261-1271.	2.1	12
61	Anion-mediated negative thermal expansion in lanthanum hexaboride. <i>Solid State Communications</i> , 2017, 265, 47-51.	1.9	11
62	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
63	Nanocrystal Superlattice Embedded within an Inorganic Semiconducting Matrix by in Situ Ligand Exchange: Fabrication and Morphology. <i>Chemistry of Materials</i> , 2015, 27, 2755-2758.	6.7	10
64	Long-Range Order in Nanocrystal Assemblies Determines Charge Transport of Films. <i>ACS Omega</i> , 2017, 2, 3681-3690.	3.5	10
65	Runaway Carbon Dioxide Conversion Leads to Enhanced Uptake in a Nanohybrid Form of Porous Magnesium Borohydride. <i>Advanced Materials</i> , 2019, 31, e1904252.	21.0	10
66	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
67	Sugar-alcohol@ZIF nanocomposites display suppressed phase-change temperatures. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23795-23802.	10.3	9
68	Hydrogen Storage Performance of Preferentially Oriented Mg/rGO Hybrids. <i>Chemistry of Materials</i> , 2022, 34, 2963-2971.	6.7	8
69	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
70	Adapting the Electron Beam from SEM as a Quantitative Heating Source for Nanoscale Thermal Metrology. <i>Nano Letters</i> , 2020, 20, 3019-3029.	9.1	7
71	Independent tuning of work function and field enhancement factor in hybrid lanthanum hexaboride-graphene-silicon field emitters. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2017, 35, 062202.	1.2	6
72	Tailoring Polymer Conformation for Nanocrystal Growth: The Role of Chain Length and Solvent. <i>Small</i> , 2017, 13, 1602572.	10.0	6

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73	Additive Destabilization of Porous Magnesium Borohydride Framework with Core-Shell Structure. <i>Small</i> , 2021, 17, e2101989.	10.0	6
74	Iron(III) Dopant Counterions Affect the Charge-Transport Properties of Poly(Thiophene) and Poly(Dialkoxothiophene) Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29039-29051.	8.0	5
75	Using Additives to Control the Decomposition Temperature of Sodium Borohydride. , 2020, 2, 1-20.		4
76	Calcium chloride substitution in sodium borohydride. <i>Journal of Solid State Chemistry</i> , 2020, 290, 121499.	2.9	3
77	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
78	Defying Thermodynamics: Stabilization of Alane Within Covalent Triazine Frameworks for Reversible Hydrogen Storage. <i>Angewandte Chemie</i> , 2021, 133, 26019-26028.	2.0	2
79	Modulation of Carrier Type in Nanocrystal-in-Matrix Composites by Interfacial Doping. <i>Chemistry of Materials</i> , 2018, 30, 2544-2549.	6.7	1
80	Design Rules for Self-Assembly of 2D Nanocrystal/Metal-Organic Framework Superstructures. <i>Angewandte Chemie</i> , 2018, 130, 13356-13360.	2.0	1
81	Impact of Source Position and Obstructions on Fume Hood Releases. <i>Annals of Work Exposures and Health</i> , 2019, 63, 937-949.	1.4	1
82	Chloride influence on the reaction mechanism of lanthanum hexaboride. <i>Journal of Crystal Growth</i> , 2019, 518, 30-33.	1.5	0