Gregory Scott

List of Publications by Year
in descending order

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51 papers	1,626 citations	430874 18 h-index	302126 39 g-index
55 all docs	55 docs citations	55 times ranked	2874 citing authors

#	Article	IF	Citations
1	Block copolymer self-assembly for nanophotonics. Chemical Society Reviews, 2015, 44, 5076-5091.	38.1	328
2	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. Nature Nanotechnology, 2018, 13, 456-462.	31.5	252
3	A High Performing Znâ€Ion Battery Cathode Enabled by In Situ Transformation of V₂O₅ Atomic Layers. Angewandte Chemie - International Edition, 2020, 59, 17004-17011.	13.8	158
4	Emerging Postsynthetic Improvements of BiVO₄ Photoanodes for Solar Water Splitting. ACS Energy Letters, 2018, 3, 112-124.	17.4	97
5	Sustainable thermoplastic elastomers derived from plant oil and their â€œclick-couplingâ€•via TAD chemistry. Green Chemistry, 2015, 17, 3806-3818.	9.0	79
6	Reversible Molecular and Ionic Storage Mechanisms in High-Performance Zn_{0.1}V₂O₅Â·nH₂O Xerogel Cathode for Aqueous Zn-Ion Batteries. ACS Nano, 2021, 15, 10678-10688.	14.6	68
7	Ordered Mesoporous to Macroporous Oxides with Tunable Isomorphic Architectures: Solution Criteria for Persistent Micelle Templates. Chemistry of Materials, 2016, 28, 1653-1667.	6.7	57
8	Improved Nonaqueous Synthesis of TiO₂ for Dye-Sensitized Solar Cells. ACS Nano, 2013, 7, 8981-8989.	14.6	52
9	Direct Visualization of Two-State Dynamics on Metallic Glass Surfaces Well Below T_g. Journal of Physical Chemistry Letters, 2010, 1, 1941-1945.	4.6	42
10	Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. Journal of Materials Chemistry A, 2015, 3, 11478-11492.	10.3	35
11	A High Performing Znâ€Ion Battery Cathode Enabled by In Situ Transformation of V₂O₅ Atomic Layers. Angewandte Chemie, 2020, 132, 17152-17159.	2.0	33
12	Nanostructured Antimonyâ€Doped Tin Oxide Layers with Tunable Pore Architectures as Versatile Transparent Current Collectors for Biophotovoltaics. Advanced Functional Materials, 2016, 26, 6682-6692.	14.9	28
13	Better biomolecule thermodynamics from kinetics. Journal of Chemical Physics, 2011, 135, 015102.	3.0	27
14	Highâ€Surfaceâ€Area Porous Platinum Electrodes for Enhanced Charge Transfer. Advanced Energy Materials, 2014, 4, 1400510.	19.5	26
15	How to make persistent micelle templates in 24 hours and know it using X-ray scattering. Journal of Materials Chemistry A, 2017, 5, 11840-11853.	10.3	26
16	A Dual Threat: Redoxâ€Activity and Electronic Structures of Wellâ€Defined Donorâ€“Acceptor Fulleretic Covalentâ€Organic Materials. Angewandte Chemie - International Edition, 2020, 59, 6000-6006.	13.8	20
17	Hydrogen-Bonding-Directed Ordered Assembly of Carboxylated Poly(3-Alkylthiophene)s. ACS Omega, 2017, 2, 8526-8535.	3.5	19
18	Widely tunable persistent micelle templates via homopolymer swelling. Soft Matter, 2019, 15, 5193-5203.	2.7	19

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19	Multi-Scale Assembly of Polythiophene-Surfactant Supramolecular Complexes for Charge Transport Anisotropy. Macromolecules, 2017, 50, 1047-1055.	4.8	18
20	Expanded Kinetic Control for Persistent Micelle Templates with Solvent Selection. Langmuir, 2018, 34, 5738-5749.	3.5	18
21	Atomic Layer Deposition of Bismuth Vanadates for Solar Energy Materials. ChemSusChem, 2016, 9, 1727-1735.	6.8	17
22	Cavitation-enabled rapid and tunable evolution of high-Ï‡N micelles as templates for ordered mesoporous oxides. Nanoscale, 2017, 9, 1393-1397.	5.6	15
23	Deciphering magnesium stearate thermotropic behavior. International Journal of Pharmaceutics, 2018, 548, 314-324.	5.2	15
24	Full Gamut Wall Tunability from Persistent Micelle Templates via Ex Situ Hydrolysis. Small, 2019, 15, e1900393.	10.0	15
25	Direct Imaging of Room Temperature Optical Absorption with Subnanometer Spatial Resolution. Nano Letters, 2010, 10, 4897-4900.	9.1	14
26	Effect of Membrane Properties on the Carbonation of Anion Exchange Membrane Fuel Cells. Membranes, 2021, 11, 102.	3.0	13
27	Cavitation Enables Switchable and Rapid Block Polymer Exchange under High-Ï‡N Conditions. Macromolecules, 2018, 51, 6967-6975.	4.8	10
28	Atomic Layer Deposition of Spaceâ€Efficient SnO 2 Underlayers for BiVO 4 Hostâ€“Guest Architectures for Photoassisted Water Splitting. ChemSusChem, 2019, 12, 1916-1924.	6.8	10
29	Tailored porous carbons enabled by persistent micelles with glassy cores. Materials Advances, 2021, 2, 5381-5395.	5.4	10
30	Robust porous polymers enabled by a fast trifluoroacetic acid etch with improved selectivity for polylactide. Materials Chemistry Frontiers, 2017, 1, 1526-1533.	5.9	9
31	Ringâ€Banded Spherulitic Crystals of Poly(3â€butylthiophene) via Controlled Solvent Evaporation. Macromolecular Chemistry and Physics, 2018, 219, 1800204.	2.2	9
32	Ordered Nanostructures of Carbon Nanotubeâ€“Polymer Composites from Lyotropic Liquid Crystal Templating. Macromolecular Chemistry and Physics, 2018, 219, 1800197.	2.2	9
33	Supramolecular Assembly of Oriented Spherulitic Crystals of Conjugated Polymers Surrounding Carbon Nanotube Fibers. Macromolecular Rapid Communications, 2019, 40, 1900098.	3.9	8
34	Persistent Micelle Corona Chemistry Enables Constant Micelle Core Size with Independent Control of Functionality and Polyelectrolyte Response. Langmuir, 2021, 37, 9817-9825.	3.5	7
35	Extended LaMer Synthesis of Cobalt-Doped Ferrite. IEEE Magnetics Letters, 2018, 9, 1-5.	1.1	6
36	Growth of Crystalline Bimetallic Metalâ€“Organic Framework Films via Transmetalation. Langmuir, 2020, 36, 9900-9908.	3.5	6

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37	Effect of Nanodiamond (ND) Surface Functionalization on the Properties of ND/PEEK Composites. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, , 1-13.	2.5	5
38	Effects of Trace Water on Self-Assembly of Sulfonated Block Copolymers During Solution Processing. ACS Applied Polymer Materials, 2020, 2, 4893-4901.	4.4	5
39	Mesoporous TiO₂ Microparticles with Tailored Surfaces, Pores, Walls, and Particle Dimensions Using Persistent Micelle Templates. Langmuir, 2021, 37, 12874-12886.	3.5	5
40	Single-variable porous nanomaterial series from polymer structure-directing agents. Journal of Materials Research, 2022, 37, 25-42.	2.6	5
41	Solving the low dimensional Smoluchowski equation with a singular value basis set. Journal of Computational Chemistry, 2010, 31, 2428-2433.	3.3	4
42	A natural missing link between activated and downhill protein folding scenarios. Physical Chemistry Chemical Physics, 2010, 12, 3542.	2.8	4
43	Controlling the coassembly of highly amphiphilic block copolymers with a hydrolytic sol by solvent exchange. RSC Advances, 2015, 5, 22499-22502.	3.6	4
44	Tunable Fluorophobic Effect Determines Nanoparticle Dispersion in Homopolymers and Block Polymers. Advanced Materials Interfaces, 2020, 7, 1901691.	3.7	4
45	Faster Intercalation Pseudocapacitance Enabled by Adjustable Amorphous Titania where Tunable Isomorphic Architectures Reveal Accelerated Lithium Diffusivity. Batteries and Supercaps, 0, , .	4.7	4
46	Surfaceâ€Initiated RAFT Polymerization of 2,3â€Dimethylâ€1,3â€butadiene on Silica Nanoparticles for Matrixâ€free Methyl Rubber Nanocomposites. Journal of Polymer Science, 2020, 58, 417-427.	3.8	3
47	Amorphization of Pseudocapacitive Tâ˜Nb ₂ O ₅ Accelerates Lithium Diffusivity as Revealed Using Tunable Isomorphic Architectures. Batteries and Supercaps, 0, , .	4.7	3
48	Coordination of Quantum Dots in a Polar Solvent by Small-Molecule Imidazole Ligands. Inorganic Chemistry, 2022, 61, 10942-10949.	4.0	3
49	Atomic Layer Deposition of Spaceâ€Efficient SnO 2 Underlayers for BiVO 4 Hostâ€“Guest Architectures for Photoassisted Water Splitting. ChemSusChem, 2019, 12, 1770-1770.	6.8	1
50	Fluorophobic Effect: Tunable Fluorophobic Effect Determines Nanoparticle Dispersion in Homopolymers and Block Polymers (Adv. Mater. Interfaces 5/2020). Advanced Materials Interfaces, 2020, 7, 2070025.	3.7	0
51	Pseudocapacitance: Nanostructure Dependence of Tâ€Nb₂O₅ Intercalation Pseudocapacitance Probed Using Tunable Isomorphic Architectures (Adv. Funct. Mater. 1/2021). Advanced Functional Materials, 2021, 31, 2170005.	14.9	0