Shelley A Claridge

List of Publications by Year
in descending order

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44 papers	2,951 citations	331670 21 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	4251 citing authors

#	Article	IF	Citations
1	Cow-to-cow variation in nanocrystal synthesis: learning from technical-grade oleylamine. Nanotechnology, 2022, 33, 082501.	2.6	2
2	Nanometer-Scale Precision Polymer Patterning of PDMS: Multiscale Insights into Patterning Efficiency Using Alkyldiynamines. ACS Applied Materials & Interfaces, 2022, 14, 22634-22642.	8.0	5
3	Trans and Saturated Alkyl Impurities in Technical-Grade Oleylamine: Limited Miscibility and Impacts on Nanocrystal Growth. Chemistry of Materials, 2022, 34, 5273-5282.	6.7	7
4	Oleylamine Impurities Regulate Temperature-Dependent Hierarchical Assembly of Ultranarrow Gold Nanowires on Biotemplated Interfaces. ACS Nano, 2021, 15, 10275-10285.	14.6	16
5	Striped Poly(diacetylene) Monolayers Control Adsorption of Polyelectrolytes and Proteins on 2D Materials and Elastomers. ACS Applied Nano Materials, 2021, 4, 7037-7046.	5.0	11
6	Plenty of Room at the Top: A Multiâ€Scale Understanding of nmâ€Resolution Polymer Patterning on 2D Materials. Angewandte Chemie, 2021, 133, 25640-25648.	2.0	1
7	Lipids: An Atomic Toolkit for the Endless Frontier. ACS Nano, 2021, 15, 15429-15445.	14.6	11
8	Plenty of Room at the Top: A Multiâ€Scale Understanding of nmâ€Resolution Polymer Patterning on 2D Materials. Angewandte Chemie - International Edition, 2021, 60, 25436-25444.	13.8	10
9	One Nanometer Wide Functional Patterns with a Sub-10 Nanometer Pitch Transferred to an Amorphous Elastomeric Material. ACS Nano, 2021, 15, 1426-1435.	14.6	16
10	Biomolecular templates for interfacial nanomaterial assembly. , 2021, , .		0
11	Large-Scale Noncovalent Functionalization of 2D Materials through Thermally Controlled Rotary Langmuirâ€“Schaefer Conversion. Langmuir, 2020, 36, 10577-10586.	3.5	12
12	Displaceable Templates with Sub-10 nm Periodicity Activate and Direct Epitaxial Assembly of Complex Aromatic Molecules. Chemistry of Materials, 2020, 32, 2552-2560.	6.7	5
13	1-nm-Wide Hydrated Dipole Arrays Regulate AuNW Assembly on Striped Monolayers in Nonpolar Solvent. CheM, 2019, 5, 2264-2275.	11.7	19
14	Hierarchically patterned striped phases of polymerized lipids: toward controlled carbohydrate presentation at interfaces. Faraday Discussions, 2019, 219, 229-243.	3.2	15
15	New directions in surface functionalization and characterization: general discussion. Faraday Discussions, 2019, 219, 252-261.	3.2	0
16	Hierarchically Patterned Noncovalent Functionalization of 2D Materials by Controlled Langmuirâ€“Schaefer Conversion. Langmuir, 2018, 34, 1353-1362.	3.5	25
17	Spectroscopic Metrics for Alkyl Chain Ordering in Lying-Down Noncovalent Monolayers of Diynoic Acids on Graphene. Chemistry of Materials, 2018, 30, 2506-2514.	6.7	9
18	Edge-on adsorption of multi-chain functional alkanes stabilizes noncovalent monolayers on MoS₂. Chemical Communications, 2018, 54, 11709-11712.	4.1	13

#	Article	IF	Citations
19	Standing, lying, and sitting: translating building principles of the cell membrane to synthetic 2D material interfaces. Chemical Communications, 2018, 54, 6681-6691.	4.1	13
20	Spatially Controlled Noncovalent Functionalization of 2D Materials Based on Molecular Architecture. Langmuir, 2018, 34, 5454-5463.	3.5	18
21	Sitting Phase Monolayers of Polymerizable Phospholipids Create Dimensional, Molecular-Scale Wetting Control for Scalable Solution-Based Patterning of Layered Materials. ACS Applied Materials & Interfaces, 2017, 9, 19326-19334.	8.0	18
22	Multimicrometer Noncovalent Monolayer Domains on Layered Materials through Thermally Controlled Langmuirâ€“Schaefer Conversion for Noncovalent 2D Functionalization. ACS Applied Materials & Interfaces, 2017, 9, 36409-36416.	8.0	20
23	Modulating Wettability of Layered Materials by Controlling Ligand Polar Headgroup Dynamics. Journal of the American Chemical Society, 2017, 139, 11973-11979.	13.7	22
24	Copper Ion Binding Site in Î²-Amyloid Peptide. Nano Letters, 2016, 16, 6282-6289.	9.1	43
25	Peptide interfaces with graphene: an emerging intersection of analytical chemistry, theory, and materials. Analytical and Bioanalytical Chemistry, 2016, 408, 2649-2658.	3.7	25
26	Sitting Phases of Polymerizable Amphiphiles for Controlled Functionalization of Layered Materials. Journal of the American Chemical Society, 2016, 138, 4448-4457.	13.7	41
27	Multimodal scanning probe imaging: nanoscale chemical analysis from biology to renewable energy. Analytical Methods, 2015, 7, 7106-7127.	2.7	18
28	Defect-Tolerant Aligned Dipoles within Two-Dimensional Plastic Lattices. ACS Nano, 2015, 9, 4734-4742.	14.6	30
29	Differentiating Amino Acid Residues and Side Chain Orientations in Peptides Using Scanning Tunneling Microscopy. Journal of the American Chemical Society, 2013, 135, 18528-18535.	13.7	33
30	Molecular Switches and Motors on Surfaces. Annual Review of Physical Chemistry, 2013, 64, 605-630.	10.8	119
31	From the bottom up: dimensional control and characterization in molecular monolayers. Chemical Society Reviews, 2013, 42, 2725-2745.	38.1	153
32	DNA conformations in mismatch repair probed in solution by X-ray scattering from gold nanocrystals. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17308-17313.	7.1	53
33	Electrons, Photons, and Force: Quantitative Single-Molecule Measurements from Physics to Biology. ACS Nano, 2011, 5, 693-729.	14.6	95
34	Cage molecules for self-assembly. Materials Science and Engineering Reports, 2010, 70, 188-208.	31.8	66
35	Hybrid strategies in nanolithography. Reports on Progress in Physics, 2010, 73, 036501.	20.1	150
36	Polarizabilities of Adsorbed and Assembled Molecules: Measuring the Conductance through Buried Contacts. ACS Nano, 2010, 4, 7630-7636.	14.6	36

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37	Pyramidal and Chiral Groupings of Gold Nanocrystals Assembled Using DNA Scaffolds. Journal of the American Chemical Society, 2009, 131, 8455-8459.	13.7	473
38	Identifying Reactive Intermediates in the Ullmann Coupling Reaction by Scanning Tunneling Microscopy and Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 13167-13172.	2.5	61
39	Nanocrystal Diffusion in a Liquid Thin Film Observed by in Situ Transmission Electron Microscopy. Nano Letters, 2009, 9, 2460-2465.	9.1	282
40	Cluster-Assembled Materials. ACS Nano, 2009, 3, 244-255.	14.6	598
41	Enzymatic Ligation Creates Discrete Multinanoparticle Building Blocks for Self-Assembly. Journal of the American Chemical Society, 2008, 130, 9598-9605.	13.7	90
42	Isolation of Discrete Nanoparticleâ^'DNA Conjugates for Plasmonic Applications. Nano Letters, 2008, 8, 1202-1206.	9.1	159
43	Protein-Nanocrystal Conjugates Support a Single Filament Polymerization Model in R1 Plasmid Segregation. Journal of Biological Chemistry, 2008, 283, 28081-28086.	3.4	15
44	Directed Assembly of Discrete Gold Nanoparticle Groupings Using Branched DNA Scaffolds. Chemistry of Materials, 2005, 17, 1628-1635.	6.7	142