

Shelley A Claridge

List of Publications by Year in descending order

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44
papers

2,951
citations

331670

21
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254184

43
g-index

46
all docs

46
docs citations

46
times ranked

4251
citing authors

#	ARTICLE	IF	CITATIONS
1	Cluster-Assembled Materials. ACS Nano, 2009, 3, 244-255.	14.6	598
2	Pyramidal and Chiral Groupings of Gold Nanocrystals Assembled Using DNA Scaffolds. Journal of the American Chemical Society, 2009, 131, 8455-8459.	13.7	473
3	Nanocrystal Diffusion in a Liquid Thin Film Observed by in Situ Transmission Electron Microscopy. Nano Letters, 2009, 9, 2460-2465.	9.1	282
4	Isolation of Discrete Nanoparticle-DNA Conjugates for Plasmonic Applications. Nano Letters, 2008, 8, 1202-1206.	9.1	159
5	From the bottom up: dimensional control and characterization in molecular monolayers. Chemical Society Reviews, 2013, 42, 2725-2745.	38.1	153
6	Hybrid strategies in nanolithography. Reports on Progress in Physics, 2010, 73, 036501.	20.1	150
7	Directed Assembly of Discrete Gold Nanoparticle Groupings Using Branched DNA Scaffolds. Chemistry of Materials, 2005, 17, 1628-1635.	6.7	142
8	Molecular Switches and Motors on Surfaces. Annual Review of Physical Chemistry, 2013, 64, 605-630.	10.8	119
9	Electrons, Photons, and Force: Quantitative Single-Molecule Measurements from Physics to Biology. ACS Nano, 2011, 5, 693-729.	14.6	95
10	Enzymatic Ligation Creates Discrete Multinanoparticle Building Blocks for Self-Assembly. Journal of the American Chemical Society, 2008, 130, 9598-9605.	13.7	90
11	Cage molecules for self-assembly. Materials Science and Engineering Reports, 2010, 70, 188-208.	31.8	66
12	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
13	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
14	Copper Ion Binding Site in β -Amyloid Peptide. Nano Letters, 2016, 16, 6282-6289.	9.1	43
15	Sitting Phases of Polymerizable Amphiphiles for Controlled Functionalization of Layered Materials. Journal of the American Chemical Society, 2016, 138, 4448-4457.	13.7	41
16	Polarizabilities of Adsorbed and Assembled Molecules: Measuring the Conductance through Buried Contacts. ACS Nano, 2010, 4, 7630-7636.	14.6	36
17	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
18	Defect-Tolerant Aligned Dipoles within Two-Dimensional Plastic Lattices. ACS Nano, 2015, 9, 4734-4742.	14.6	30

#	ARTICLE	IF	CITATIONS
19	Peptide interfaces with graphene: an emerging intersection of analytical chemistry, theory, and materials. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 2649-2658.	3.7	25
20	Hierarchically Patterned Noncovalent Functionalization of 2D Materials by Controlled Langmuir-Schaefer Conversion. <i>Langmuir</i> , 2018, 34, 1353-1362.	3.5	25
21	Modulating Wettability of Layered Materials by Controlling Ligand Polar Headgroup Dynamics. <i>Journal of the American Chemical Society</i> , 2017, 139, 11973-11979.	13.7	22
22	Multimicrometer Noncovalent Monolayer Domains on Layered Materials through Thermally Controlled Langmuir-Schaefer Conversion for Noncovalent 2D Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36409-36416.	8.0	20
23	1-nm-Wide Hydrated Dipole Arrays Regulate AuNW Assembly on Striped Monolayers in Nonpolar Solvent. <i>CheM</i> , 2019, 5, 2264-2275.	11.7	19
24	Multimodal scanning probe imaging: nanoscale chemical analysis from biology to renewable energy. <i>Analytical Methods</i> , 2015, 7, 7106-7127.	2.7	18
25	Sitting Phase Monolayers of Polymerizable Phospholipids Create Dimensional, Molecular-Scale Wetting Control for Scalable Solution-Based Patterning of Layered Materials. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19326-19334.	8.0	18
26	Spatially Controlled Noncovalent Functionalization of 2D Materials Based on Molecular Architecture. <i>Langmuir</i> , 2018, 34, 5454-5463.	3.5	18
27	Oleylamine Impurities Regulate Temperature-Dependent Hierarchical Assembly of Ultranarrow Gold Nanowires on Biotemplated Interfaces. <i>ACS Nano</i> , 2021, 15, 10275-10285.	14.6	16
28	One Nanometer Wide Functional Patterns with a Sub-10 Nanometer Pitch Transferred to an Amorphous Elastomeric Material. <i>ACS Nano</i> , 2021, 15, 1426-1435.	14.6	16
29	Protein-Nanocrystal Conjugates Support a Single Filament Polymerization Model in R1 Plasmid Segregation. <i>Journal of Biological Chemistry</i> , 2008, 283, 28081-28086.	3.4	15
30	Hierarchically patterned striped phases of polymerized lipids: toward controlled carbohydrate presentation at interfaces. <i>Faraday Discussions</i> , 2019, 219, 229-243.	3.2	15
31	Edge-on adsorption of multi-chain functional alkanes stabilizes noncovalent monolayers on MoS ₂ . <i>Chemical Communications</i> , 2018, 54, 11709-11712.	4.1	13
32	Standing, lying, and sitting: translating building principles of the cell membrane to synthetic 2D material interfaces. <i>Chemical Communications</i> , 2018, 54, 6681-6691.	4.1	13
33	Large-Scale Noncovalent Functionalization of 2D Materials through Thermally Controlled Rotary Langmuir-Schaefer Conversion. <i>Langmuir</i> , 2020, 36, 10577-10586.	3.5	12
34	Striped Poly(diacetylene) Monolayers Control Adsorption of Polyelectrolytes and Proteins on 2D Materials and Elastomers. <i>ACS Applied Nano Materials</i> , 2021, 4, 7037-7046.	5.0	11
35	Lipids: An Atomic Toolkit for the Endless Frontier. <i>ACS Nano</i> , 2021, 15, 15429-15445.	14.6	11
36	Plenty of Room at the Top: A Multi-Scale Understanding of nm-Resolution Polymer Patterning on 2D Materials. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25436-25444.	13.8	10

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37	Spectroscopic Metrics for Alkyl Chain Ordering in Lying-Down Noncovalent Monolayers of Dioic Acids on Graphene. <i>Chemistry of Materials</i> , 2018, 30, 2506-2514.	6.7	9
38	Trans and Saturated Alkyl Impurities in Technical-Grade Oleylamine: Limited Miscibility and Impacts on Nanocrystal Growth. <i>Chemistry of Materials</i> , 2022, 34, 5273-5282.	6.7	7
39	Displaceable Templates with Sub-10 nm Periodicity Activate and Direct Epitaxial Assembly of Complex Aromatic Molecules. <i>Chemistry of Materials</i> , 2020, 32, 2552-2560.	6.7	5
40	Nanometer-Scale Precision Polymer Patterning of PDMS: Multiscale Insights into Patterning Efficiency Using Alkyldiynamines. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22634-22642.	8.0	5
41	Cow-to-cow variation in nanocrystal synthesis: learning from technical-grade oleylamine. <i>Nanotechnology</i> , 2022, 33, 082501.	2.6	2
42	Plenty of Room at the Top: A Multi-Scale Understanding of nm-Resolution Polymer Patterning on 2D Materials. <i>Angewandte Chemie</i> , 2021, 133, 25640-25648.	2.0	1
43	New directions in surface functionalization and characterization: general discussion. <i>Faraday Discussions</i> , 2019, 219, 252-261.	3.2	0
44	Biomolecular templates for interfacial nanomaterial assembly. , 2021, , .		0