Jillian M Buriak

List of Publications by Year
in descending order

401	13,360	28242	23514
papers	citations	55 h-index	111 g-index

429	429	429	14889
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organometallic Chemistry on Silicon and Germanium Surfaces. Chemical Reviews, 2002, 102, 1271-1308.	23.0	1,653
2	Desorptionâ€“ionization mass spectrometry on porous silicon. Nature, 1999, 399, 243-246.	13.7	1,046
3	Chemical and Biological Applications of Porous Silicon Technology. Advanced Materials, 2000, 12, 859-869.	11.1	433
4	Assembly of aligned linear metallic patterns on silicon. Nature Nanotechnology, 2007, 2, 500-506.	15.6	351
5	Lewis Acid Mediated Functionalization of Porous Silicon with Substituted Alkenes and Alkynes. Journal of the American Chemical Society, 1998, 120, 1339-1340.	6.6	339
6	Lewis Acid Mediated Hydrosilylation on Porous Silicon Surfaces. Journal of the American Chemical Society, 1999, 121, 11491-11502.	6.6	312
7	Organometallic chemistry on silicon surfaces: formation of functional monolayers bound through Siâ€“C bonds. Chemical Communications, 1999, , 1051-1060.	2.2	297
8	Using Cylindrical Domains of Block Copolymers To Self-Assemble and Align Metallic Nanowires. ACS Nano, 2008, 2, 489-501.	7.3	293
9	Exciton-Mediated Hydrosilylation on Photoluminescent Nanocrystalline Silicon. Journal of the American Chemical Society, 2001, 123, 7821-7830.	6.6	244
10	Photopatterned Hydrosilylation on Porous Silicon. Angewandte Chemie - International Edition, 1998, 37, 3257-3260.	7.2	239
11	How To Optimize Materials and Devices via Design of Experiments and Machine Learning: Demonstration Using Organic Photovoltaics. ACS Nano, 2018, 12, 7434-7444.	7.3	219
12	Controlled Electroless Deposition of Noble Metal Nanoparticle Films on Germanium Surfaces. Nano Letters, 2002, 2, 1067-1071.	4.5	203
13	Block Copolymer Templated Chemistry for the Formation of Metallic Nanoparticle Arrays on Semiconductor Surfaces. Chemistry of Materials, 2007, 19, 5090-5101.	3.2	192
14	Derivatized Mesoporous Silicon with Dramatically Improved Stability in Simulated Human Blood Plasma. Advanced Materials, 1999, 11, 1505-1507.	11.1	179
15	Cylindrical Î²-Sheet Peptide Assemblies. Journal of the American Chemical Society, 1998, 120, 8949-8962.	6.6	178
16	Best Practices for Reporting on Heterogeneous Photocatalysis. ACS Applied Materials & Interfaces, 2014, 6, 11815-11816.	4.0	163
17	Spray coated high-conductivity PEDOT:PSS transparent electrodes for stretchable and mechanically-robust organic solar cells. Solar Energy Materials and Solar Cells, 2013, 110, 98-106.	3.0	159
18	Lead-Free Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 904-905.	8.8	158

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19	Synthesis and SERS Properties of Nanocrystalline Gold Octahedra Generated from Thermal Decomposition of HAuCl4 in Block Copolymers. Advanced Materials, 2006, 18, 3233-3237.	11.1	149
20	Fast Assembly of Ordered Block Copolymer Nanostructures through Microwave Annealing. ACS Nano, 2010, 4, 7021-7029.	7.3	144
21	Catalytic olefin hydrogenation using N-heterocyclic carbeneâ€“phosphine complexes of iridium. Chemical Communications, 2002, , 2518-2519.	2.2	138
22	Illuminating Silicon Surface Hydrosilylation: An Unexpected Plurality of Mechanisms. Chemistry of Materials, 2014, 26, 763-772.	3.2	132
23	Specific detection of proteins using photonic crystal waveguides. Optics Express, 2008, 16, 15949.	1.7	130
24	Electroless Nanoparticle Film Deposition Compatible with Photolithography, Microcontact Printing, and Dip-Pen Nanolithography Patterning Technologies. Nano Letters, 2002, 2, 1369-1372.	4.5	129
25	Hydrogermylation of Alkenes and Alkynes on Hydride-Terminated Ge(100) Surfaces. Langmuir, 2000, 16, 7737-7741.	1.6	128
26	Silver Nano-Inukshuks on Germanium. Nano Letters, 2005, 5, 815-819.	4.5	126
27	Nanoscale Patterning of Two Metals on Silicon Surfaces Using an ABC Triblock Copolymer Template. Journal of the American Chemical Society, 2006, 128, 5877-5886.	6.6	124
28	Snâ€“Biâ€“Sb alloys as anode materials for sodium ion batteries. Journal of Materials Chemistry A, 2017, 5, 9661-9670.	5.2	124
29	Nanopatterning of Alkynes on Hydrogen-Terminated Silicon Surfaces by Scanning Probe-Induced Cathodic Electrografting. Journal of the American Chemical Society, 2003, 125, 11334-11339.	6.6	123
30	Redox Flow Batteries: How to Determine Electrochemical Kinetic Parameters. ACS Nano, 2020, 14, 2575-2584.	7.3	118
31	Block Copolymer-Templated Chemistry on Si, Ge, InP, and GaAs Surfaces. Journal of the American Chemical Society, 2005, 127, 8932-8933.	6.6	117
32	The search for new hydrogenation catalyst motifs based on N-heterocyclic carbene ligands. Inorganica Chimica Acta, 2006, 359, 2786-2797.	1.2	117
33	Rolling Silver Nanowire Electrodes: Simultaneously Addressing Adhesion, Roughness, and Conductivity. ACS Applied Materials & Interfaces, 2013, 5, 12663-12671.	4.0	113
34	Reporting Performance in Organic Photovoltaic Devices. ACS Nano, 2013, 7, 4708-4714.	7.3	110
35	Hydride Abstraction Initiated Hydrosilylation of Terminal Alkenes and Alkynes on Porous Silicon. Langmuir, 2002, 18, 2971-2974.	1.6	107
36	Methylammonium Cation Dynamics in Methylammonium Lead Halide Perovskites: A Solid-State NMR Perspective. Journal of Physical Chemistry A, 2018, 122, 1560-1573.	1.1	103

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37	Heteroepitaxial Growth of Gold Nanostructures on Silicon by Galvanic Displacement. ACS Nano, 2009, 3, 2809-2817.	7.3	101
38	Nanopatterning via Solvent Vapor Annealing of Block Copolymer Thin Films. Chemistry of Materials, 2017, 29, 176-188.	3.2	94
39	Common Pitfalls of Catalysis Manuscripts Submitted toChemistry of Materials. Chemistry of Materials, 2018, 30, 3599-3600.	3.2	93
40	Silicon-Carbon Bonds on Porous Silicon Surfaces. Advanced Materials, 1999, 11, 265-267.	11.1	92
41	Î²-SnSb for Sodium Ion Battery Anodes: Phase Transformations Responsible for Enhanced Cycling Stability Revealed by In Situ TEM. ACS Energy Letters, 2018, 3, 1670-1676.	8.8	90
42	Anodic and cathodic electrografting of alkynes on porous siliconâ€. Chemical Communications, 1999, , 2479-2480.	2.2	87
43	Studies on Catalytic Asymmetric Imine Hydrogenation in the Presence of Reverse Micelles:Â Enhanced Enantioselectivity due to Surfactant Head Group Coordination. Organometallics, 1996, 15, 3161-3169.	1.1	82
44	Stable Inverted Polymer/Fullerene Solar Cells Using a Cationic Polythiophene Modified PEDOT:PSS Cathodic Interface. Advanced Functional Materials, 2010, 20, 2404-2415.	7.8	82
45	Surface Area Characterization of Obliquely Deposited Metal Oxide Nanostructured Thin Films. Langmuir, 2010, 26, 4368-4376.	1.6	81
46	Molecular Layer Deposition of Thiolâ^'Ene Multilayers on Semiconductor Surfaces. Langmuir, 2010, 26, 1232-1238.	1.6	71
47	Solution-Processed Zinc Phosphide (Î±-Zn₃P₂) Colloidal Semiconducting Nanocrystals for Thin Film Photovoltaic Applications. ACS Nano, 2013, 7, 8136-8146.	7.3	70
48	Metal Mediated Reactions on Porous Silicon Surfaces. Journal of Solid State Chemistry, 1999, 147, 251-258.	1.4	68
49	Indium tin oxide nanopillar electrodes in polymer/fullerene solar cells. Nanotechnology, 2011, 22, 085706.	1.3	67
50	Three Methods for Stabilization and Functionalization of Porous Silicon Surfaces via Hydrosilylation and Electrografting Reactions. Physica Status Solidi A, 2000, 182, 109-115.	1.7	64
51	Best Practices for the Reporting of Colloidal Inorganic Nanomaterials. Chemistry of Materials, 2015, 27, 4911-4913.	3.2	64
52	Deconvoluting the Mechanism of Microwave Annealing of Block Copolymer Thin Films. ACS Nano, 2014, 8, 3979-3991.	7.3	61
53	Screening of Heterogeneous Multimetallic Nanoparticle Catalysts Supported on Metal Oxides for Mono-, Poly-, and Heteroaromatic Hydrogenation Activity. ACS Catalysis, 2012, 2, 1524-1534.	5.5	60
54	In-Operando Study of the Effects of Solvent Additives on the Stability of Organic Solar Cells Based on PTB7-Th:PC₇₁BM. ACS Energy Letters, 2019, 4, 464-470.	8.8	60

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55	Role of Interfacial Layers in Organic Solar Cells: Energy Level Pinning versus Phase Segregation. ACS Applied Materials & Interfaces, 2016, 8, 18238-18248.	4.0	57
56	New Approaches Toward the Formation of Silicon-Carbon Bonds on Porous Silicon. Comments on Inorganic Chemistry, 2002, 23, 179-203.	3.0	56
57	Work Function Control of Interfacial Buffer Layers for Efficient and Airâ€Stable Inverted Lowâ€Bandgap Organic Photovoltaics. Advanced Energy Materials, 2012, 2, 361-368.	10.2	56
58	Block Copolymer Templated Etching on Silicon. Nano Letters, 2007, 7, 464-469.	4.5	55
59	Automated Defect and Correlation Length Analysis of Block Copolymer Thin Film Nanopatterns. PLoS ONE, 2015, 10, e0133088.	1.1	55
60	Metallic Nanostructures via Static Plowing Lithography. Nano Letters, 2003, 3, 1043-1047.	4.5	53
61	Trapping Silicon Surface-Based Radicals. Langmuir, 2006, 22, 6214-6221.	1.6	52
62	Biocompatible Carbohydrate-Functionalized Stainless Steel Surfaces: A New Method For Passivating Biomedical Implants. ACS Applied Materials & Interfaces, 2011, 3, 1601-1612.	4.0	52
63	Sbâ€“Si Alloys and Multilayers for Sodium-Ion Battery Anodes. ACS Applied Energy Materials, 2019, 2, 2205-2213.	2.5	52
64	High surface area silicon materials: fundamentals and new technology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 217-225.	1.6	51
65	Size and Surface Effects of Silicon Nanocrystals in Graphene Aerogel Composite Anodes for Lithium Ion Batteries. Chemistry of Materials, 2018, 30, 7782-7792.	3.2	50
66	Synthesis and Patterning of Gold Nanostructures on InP and GaAs via Galvanic Displacement. Small, 2005, 1, 1076-1081.	5.2	49
67	Recycling Is Not Always Good: The Dangers of Self-Plagiarism. ACS Nano, 2012, 6, 1-4.	7.3	49
68	Toward a Mechanistic Understanding of Exciton-Mediated Hydrosilylation on Nanocrystalline Silicon. Journal of the American Chemical Society, 2012, 134, 489-497.	6.6	49
69	Phase-Pure Crystalline Zinc Phosphide Nanoparticles: Synthetic Approaches and Characterization. Chemistry of Materials, 2014, 26, 1925-1935.	3.2	49
70	Oxygen Evolution Catalyzed by Nickelâ€“Iron Oxide Nanocrystals with a Nonequilibrium Phase. ACS Applied Materials & Interfaces, 2015, 7, 19755-19763.	4.0	49
71	Electrostatic Layer-by-Layer Assembly of CdSe Nanorod/Polymer Nanocomposite Thin Films. ACS Applied Materials & Interfaces, 2010, 2, 219-229.	4.0	47
72	Photoluminescence of porous silicon surfaces stabilized through Lewis acid mediated hydrosilylation. Journal of Luminescence, 1998, 80, 29-35.	1.5	45

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73	Preparation and functionalization of hydride terminated porous germanium. Chemical Communications, 2000, , 1669-1670.	2.2	45
74	Probing the Mechanisms of Enantioselective Hydrogenation of Simple Olefins with Chiral Rhodium Catalysts in the Presence of Anions. Chemistry - A European Journal, 2000, 6, 139-150.	1.7	43
75	Catalytic Stamp Lithography for Sub-100 nm Patterning of Organic Monolayers. Journal of the American Chemical Society, 2008, 130, 17656-17657.	6.6	42
76	Dehydrogenative Silane Coupling on Silicon Surfaces via Early Transition Metal Catalysis. Inorganic Chemistry, 2006, 45, 1096-1102.	1.9	41
77	Rapid Assembly of Nanolines with Precisely Controlled Spacing from Binary Blends of Block Copolymers. Macromolecules, 2011, 44, 9752-9757.	2.2	41
78	Bulk Heterojunction Organic Photovoltaics Based on Carboxylated Polythiophenes and PCBM on Glass and Plastic Substrates. Advanced Functional Materials, 2011, 21, 1816-1826.	7.8	41
79	Nano and Plants. ACS Nano, 2022, 16, 1681-1684.	7.3	41
80	Challenges and Opportunities in Designing Perovskite Nanocrystal Heterostructures. ACS Energy Letters, 2020, 5, 2253-2255.	8.8	39
81	From Molecules to Surfaces: Radical-Based Mechanisms of Siâ€“S and Siâ€“Se Bond Formation on Silicon. Journal of the American Chemical Society, 2015, 137, 9730-9738.	6.6	38
82	Donorâ€“Acceptor Small Molecules for Organic Photovoltaics: Single-Atom Substitution (Se or S). ACS Applied Materials & Interfaces, 2015, 7, 8188-8199.	4.0	38
83	Characterization of the Interface of Gold and Silver Nanostructures on InP and GaAs Synthesized via Galvanic Displacement. Journal of Physical Chemistry C, 2008, 112, 12291-12298.	1.5	37
84	UV-Initiated Hydrosilylation on Hydrogen-Terminated Silicon (111): Rate Coefficient Increase of Two Orders of Magnitude in the Presence of Aromatic Electron Acceptors. Langmuir, 2012, 28, 16285-16293.	1.6	37
85	ABH-Glycan Microarray Characterizes ABO Subtype Antibodies: Fine Specificity of Immune Tolerance After ABO-Incompatible Transplantation. American Journal of Transplantation, 2016, 16, 1548-1558.	2.6	36
86	Specific detection of proteins using nanomechanical resonators. Sensors and Actuators B: Chemical, 2008, 134, 613-617.	4.0	35
87	Epitaxial Growth of Nanostructured Gold Films on Germanium via Galvanic Displacement. ACS Applied Materials & Interfaces, 2010, 2, 3515-3524.	4.0	35
88	Density Doubling of Block Copolymer Templated Features. Nano Letters, 2012, 12, 264-268.	4.5	34
89	Nickel/Iron Oxide Nanocrystals with a Nonequilibrium Phase: Controlling Size, Shape, and Composition. Chemistry of Materials, 2014, 26, 4796-4804.	3.2	34
90	Thienylsilane-Modified Indium Tin Oxide as an Anodic Interface in Polymer/Fullerene Solar Cells. ACS Applied Materials & Interfaces, 2009, 1, 279-288.	4.0	33

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91	Finely Tailored Performance of Inverted Organic Photovoltaics through Layer-by-Layer Interfacial Engineering. ACS Applied Materials & Interfaces, 2011, 3, 3962-3970.	4.0	33
92	Redox Flow Batteries. ACS Energy Letters, 2017, 2, 1368-1369.	8.8	33
93	An Electrifying Choice for the 2019 Chemistry Nobel Prize: Goodenough, Whittingham, and Yoshino. Chemistry of Materials, 2019, 31, 8577-8581.	3.2	31
94	Transition metal mediated surface modification of porous silicon. Tetrahedron, 2001, 57, 5131-5136.	1.0	30
95	Electrochemically driven organic monolayer formation on silicon surfaces using alkylammonium and alkylphosphonium reagents. Surface Science, 2005, 590, 154-161.	0.8	29
96	Screening of Bimetallic Heterogeneous Nanoparticle Catalysts for Arene Hydrogenation Activity under Ambient Conditions. Inorganic Chemistry, 2010, 49, 2706-2714.	1.9	29
97	Elucidating the Surface Chemistry of Zinc Phosphide Nanoparticles Through Ligand Exchange. Chemistry of Materials, 2014, 26, 4653-4661.	3.2	29
98	Effects of Organic Monolayer Formation on Electrochemiluminescence Behavior of Porous Silicon. Chemistry of Materials, 2000, 12, 2151-2156.	3.2	28
99	CHEMISTRY: Chemistry with Nanoscale Perfection. Science, 2004, 304, 692-693.	6.0	28
100	C₆₀ Fullerene Nanocolumnsâ€“Polythiophene Heterojunctions for Inverted Organic Photovoltaic Cells. ACS Applied Materials & Interfaces, 2011, 3, 1887-1894.	4.0	28
101	Self-assembly of carboxylated polythiophene nanowires for improved bulk heterojunction morphology in polymer solar cells. Journal of Materials Chemistry, 2012, 22, 11354.	6.7	28
102	Conversion of Bilayers of PS-b-PDMS Block Copolymer into Closely Packed, Aligned Silica Nanopatterns. ACS Nano, 2013, 7, 5595-5606.	7.3	28
103	Diamond Surfaces: Just Big Organic Molecules?. Angewandte Chemie - International Edition, 2001, 40, 532-534.	7.2	26
104	Analysis of porosity in porous silicon using hyperpolarized 129Xe two-dimensional exchange experiments. Solid State Nuclear Magnetic Resonance, 2006, 29, 85-89.	1.5	26
105	Nanoscale Patterning of Organic Monolayers by Catalytic Stamp Lithography: Scope and Limitations. ACS Applied Materials & Interfaces, 2009, 1, 2711-2720.	4.0	25
106	Nanoscale Plasmonic Stamp Lithography on Silicon. ACS Nano, 2015, 9, 2184-2193.	7.3	25
107	UV-Initiated Siâ€“S, Siâ€“Se, and Siâ€“Te Bond Formation on Si(111): Coverage, Mechanism, and Electronics. Journal of Physical Chemistry C, 2018, 122, 13803-13814.	1.5	25
108	Preferential face deposition of gold nanoparticles on silicon nanowires by galvanic displacement. CrystEngComm, 2012, 14, 5230.	1.3	24

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109	Expanding the Repertoire of Molecular Linkages to Silicon: Siâ€“S, Siâ€“Se, and Siâ€“Te Bonds. ACS Applied Materials & Interfaces, 2016, 8, 11091-11099.	4.0	24
110	Bipolar Resistive Switching in Junctions of Gallium Oxide and p-type Silicon. Nano Letters, 2021, 21, 2666-2674.	4.5	24
111	Virtual Issue on Best Practices for Reporting the Properties of Materials and Devices. Chemistry of Materials, 2016, 28, 3525-3526.	3.2	23
112	Virtual Issue on Machine-Learning Discoveries in Materials Science. Chemistry of Materials, 2019, 31, 8243-8247.	3.2	23
113	Stabilizing Tin Anodes in Sodium-Ion Batteries by Alloying with Silicon. ACS Applied Energy Materials, 2020, 3, 9950-9962.	2.5	23
114	Open the Floodgates for Online Feedback on Scientific Papers? Not So Fast. ACS Nano, 2013, 7, 1-2.	7.3	22
115	Optimization of the Bulk Heterojunction of All-Small-Molecule Organic Photovoltaics Using Design of Experiment and Machine Learning Approaches. ACS Applied Materials & Interfaces, 2020, 12, 54596-54607.	4.0	22
116	Self-assembly of peptide based nanotubes. Materials Science and Engineering C, 1997, 4, 207-212.	3.8	21
117	Constructing Metal-Based Structures on Nanopatterned Etched Silicon. ACS Nano, 2011, 5, 5015-5024.	7.3	21
118	Substance over Subjectivity: Moving beyond the Histogram. Chemistry of Materials, 2016, 28, 5973-5975.	3.2	21
119	Preferential Alignment of Incommensurate Block Copolymer Dot Arrays Forming MoirÃ© Superstructures. ACS Nano, 2017, 11, 3237-3246.	7.3	21
120	Chemistry of Materials for Water Splitting Reactions. Chemistry of Materials, 2018, 30, 7325-7327.	3.2	21
121	Layer-by-Layer Growth of Graphene Oxide-Based Films for Electronics Applications in 1999: Early Leaders. Chemistry of Materials, 2015, 27, 1-2.	3.2	19
122	Alternating Silicon and Carbon Multilayer-Structured Anodes Suppress Formation of the c-Li_{3.75}Si Phase. Chemistry of Materials, 2019, 31, 6578-6589.	3.2	19
123	Optical sensing of amine vapors with a series of tin compoundsElectronic supplementary information (ESI) available: experimental section. See http://www.rsc.org/suppdata/cc/b4/b406230b/. Chemical Communications, 2004, , 2028.	2.2	18
124	Summarize Your Work in 100 Milliseconds or Less... The Importance of the Table of Contents Image. ACS Nano, 2011, 5, 7687-7689.	7.3	18
125	The Experimental Section: The Key to Longevity of Your Research. Chemistry of Materials, 2014, 26, 1765-1766.	3.2	18
126	Sequential Nanopatterned Block Copolymer Self-Assembly on Surfaces. Langmuir, 2016, 32, 5890-5898.	1.6	17

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127	25 Years of Proud History: Building for the Next 25. Chemistry of Materials, 2014, 26, 1-2.	3.2	16
128	Rising to the Challenge: John B. Goodenough and Youngsik Kim, and â€œChallenges for Rechargeable Li Batteriesâ€• Chemistry of Materials, 2015, 27, 5149-5150.	3.2	16
129	Preface to the Special Issue on Methods and Protocols in Materials Chemistry. Chemistry of Materials, 2017, 29, 1-2.	3.2	16
130	Virtual Issue on Metal-Halide Perovskite Nanocrystalsâ€”A Bright Future for Optoelectronics. Chemistry of Materials, 2017, 29, 8915-8917.	3.2	16
131	UVâ€Induced Ferroelectric Phase Transformation in PVDF Thin Films. Advanced Electronic Materials, 2019, 5, 1800363.	2.6	16
132	Your Research Results Look Compelling, but Are They Reliable?. Chemistry of Materials, 2014, 26, 2211-2213.	3.2	15
133	Titles and Table of Contents Images: The Candy Store Analogy. Chemistry of Materials, 2014, 26, 1289-1290.	3.2	15
134	Building Upon Patterned Organic Monolayers Produced via Catalytic Stamp Lithography. ACS Applied Materials & Interfaces, 2010, 2, 2301-2307.	4.0	14
135	Understanding the Effects of a High Surface Area Nanostructured Indium Tin Oxide Electrode on Organic Solar Cell Performance. ACS Applied Materials & Interfaces, 2017, 9, 38706-38715.	4.0	14
136	Understanding the Mechanism of Enhanced Cycling Stability in Snâ€“Sb Composite Na-Ion Battery Anodes: Operando Alloying and Diffusion Barriers. ACS Applied Energy Materials, 2019, 2, 5133-5139.	2.5	14
137	Mastering the Art of Scientific Publication. Journal of Physical Chemistry Letters, 2014, 5, 3519-3521.	2.1	13
138	Polymers, Plasmons, and Patterns: Mechanism of Plasmon-Induced Hydrosilylation on Silicon. Chemistry of Materials, 2016, 28, 9158-9168.	3.2	13
139	Confronting Racism in Chemistry Journals. ACS Applied Materials & Interfaces, 2020, 12, 28925-28927.	4.0	13
140	Solvent Vapor Annealing, Defect Analysis, and Optimization of Self-Assembly of Block Copolymers Using Machine Learning Approaches. ACS Applied Materials & Interfaces, 2021, 13, 28639-28649.	4.0	12
141	A simple in situ 31P NMR method for the determination of the enantiomeric purity of aromatic substrates. Journal of the Chemical Society Chemical Communications, 1995, , 689.	2.0	11
142	Block copolymer mediated deposition of metal nanoparticles on germanium nanowires. Chemical Communications, 2007, , 1438.	2.2	11
143	Block copolymer-templated chemical nanopatterning on pyrolyzed photoresist carbon films. Chemical Communications, 2012, 48, 9741.	2.2	11
144	Mega-Journals and Peer Review: Can Quality and Standards Survive?. Chemistry of Materials, 2015, 27, 2243-2243.	3.2	11

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145	Adhesion and Surface Layers on Silicon Anodes Suppress Formation of c-Li_{3.75}Si and Solid-Electrolyte Interphase. ACS Applied Energy Materials, 2020, 3, 1609-1616.	2.5	10
146	Increased Volatility of Barium Metal Organics by the Use of Nitrogen Lewis Bases. Materials Research Society Symposia Proceedings, 1990, 204, 545.	0.1	9
147	Conjugation of A and B Blood Group Structures to Silica Microparticles for the Detection of Antigen-Specific B Cells. Bioconjugate Chemistry, 2016, 27, 705-715.	1.8	9
148	Figure Size: Please Be Kind to Your Reader. Chemistry of Materials, 2017, 29, 8021-8022.	3.2	9
149	Water-soluble pH-switchable cobalt complexes for aqueous symmetric redox flow batteries. Chemical Communications, 2020, 56, 3605-3608.	2.2	9
150	The Art of Writing the Title of Your Paper. Chemistry of Materials, 2014, 26, 3349-3350.	3.2	8
151	Photochemical Water Splitting Pioneer: Frank Osterloh and Chemistry of Materialsâ€™ 1k Club. Chemistry of Materials, 2016, 28, 1-2.	3.2	8
152	Vapor-Phase Nanopatterning of Aminosilanes with Electron Beam Lithography: Understanding and Minimizing Background Functionalization. Langmuir, 2018, 34, 4780-4792.	1.6	8
153	Plasmonic Stamps Fabricated by Gold Dewetting on PDMS for Catalyzing Hydrosilylation on Silicon Surfaces. ACS Applied Nano Materials, 2019, 2, 3238-3245.	2.4	8
154	van der Waals Epitaxy of Soft Twisted Bilayers: Lattice Relaxation and Mass Density Waves. ACS Nano, 2020, 14, 13441-13450.	7.3	8
155	Magnetic chaperones for droplets. Nature Materials, 2004, 3, 847-849.	13.3	7
156	Transport Properties of Thiophenes: Insights from Density-Functional Theory Modeling Using Dispersion-Correcting Potentials. Journal of Physical Chemistry C, 2010, 114, 10952-10961.	1.5	7
157	F^{â€“} Doping on TiO₂ Provided Important Insights into Photocatalysis. Chemistry of Materials, 2015, 27, 1443-1444.	3.2	7
158	Which Font Looks Best in a Figure?. Chemistry of Materials, 2016, 28, 689-690.	3.2	7
159	Template Synthesis Approach to Nanomaterials: Charles Martin. Chemistry of Materials, 2014, 26, 4889-4890.	3.2	6
160	Methods/Protocolsâ€”A New Article Type in Chemistry of Materials. Chemistry of Materials, 2017, 29, 475-476.	3.2	6
161	Father of Mesoporous Materials: Galen D. Stucky. Chemistry of Materials, 2014, 26, 5819-5820.	3.2	5
162	Hot Topics in Materials Chemistry and the Immediacy Index Long-Term versus Short-Term Impact. Chemistry of Materials, 2015, 27, 1147-1148.	3.2	5

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163	Big Roles for Nanocenters. ACS Nano, 2015, 9, 8639-8640.	7.3	5
164	Table of Contents Images: Science and Beauty = Clarity. Chemistry of Materials, 2016, 28, 1589-1590.	3.2	5
165	Early in the Game: Graphene/Polyaniline Nanocomposites for Supercapacitors. Chemistry of Materials, 2017, 29, 4607-4608.	3.2	5
166	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Applied Materials & Interfaces, 2020, 12, 20147-20148.	4.0	5
167	Confronting Racism in Chemistry Journals. Nano Letters, 2020, 20, 4715-4717.	4.5	5
168	Snapshots of Lifeâ€"Early Career Materials Scientists Managing in the Midst of a Pandemic. Chemistry of Materials, 2020, 32, 3673-3677.	3.2	5
169	A Quiet Revolution. ACS Nano, 2009, 3, 3335-3336.	7.3	4
170	In Response. ACS Nano, 2012, 6, 3643-3645.	7.3	4
171	2016 Chemistry Nobel Prize - Molecular Machines Are Real. Chemistry of Materials, 2016, 28, 7179-7180.	3.2	4
172	Best Practices for New Polymers and Nanoparticulate Systems. Chemistry of Materials, 2018, 30, 6587-6588.	3.2	4
173	Confronting Racism in Chemistry Journals. Organic Letters, 2020, 22, 4919-4921.	2.4	4
174	Beyond Thin Films: Clarifying the Impact of c-Li₁₅Si₄ Formation in Thin Film, Nanoparticle, and Porous Si Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 38147-38160.	4.0	4
175	Silicon-Carbon Bond Formation on Porous Silicon. , 2014, , 683-693.		4
176	Mixing, Domains, and Fast Li-Ion Dynamics in Ternary Liâ€“Sbâ€“Bi Battery Anode Alloys. Journal of Physical Chemistry C, 2022, 126, 2394-2402.	1.5	4
177	Positive and negative photopatterning of metal oxides on silicon via bipolar electrochemical deposition. Chemical Communications, 2001, , 1614-1615.	2.2	3
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