

Jillian M Buriak

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

168
papers

11,519
citations

52
h-index

104
g-index

429
ext. papers

12,546
ext. citations

9.8
avg, IF

6.86
L-index

#	Paper	IF	Citations
168	Mixing, Domains, and Fast Li-Ion Dynamics in Ternary Li ₃ BbBi Battery Anode Alloys. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 2394-2402	3.8	2
167	Nano and Plants. <i>ACS Nano</i> , 2022 , 16, 1681-1684	16.7	14
166	Bipolar Resistive Switching in Junctions of Gallium Oxide and p-type Silicon. <i>Nano Letters</i> , 2021 , 21, 2666-2674	26.74	8
165	Solvent Vapor Annealing, Defect Analysis, and Optimization of Self-Assembly of Block Copolymers Using Machine Learning Approaches. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28639-28649	9.5	4
164	Kinetics of Plasmon-Driven Hydrosilylation of Silicon Surfaces: Photogenerated Charges Drive Silicon-Carbon Bond Formation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17983-17992	3.8	
163	Beyond Thin Films: Clarifying the Impact of -LiSi Formation in Thin Film, Nanoparticle, and Porous Si Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38147-38160	9.5	1
162	Challenges and Opportunities in Designing Perovskite Nanocrystal Heterostructures. <i>ACS Energy Letters</i> , 2020 , 5, 2253-2255	20.1	24
161	Confronting Racism in Chemistry Journals. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6131-6133	5.6	
160	Confronting Racism in Chemistry Journals. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2496-2498	4.3	
159	Confronting Racism in Chemistry Journals. <i>Organometallics</i> , 2020 , 39, 2331-2333	3.8	
158	Redox Flow Batteries: How to Determine Electrochemical Kinetic Parameters. <i>ACS Nano</i> , 2020 , 14, 2575-2584	25.84	38
157	Water-soluble pH-switchable cobalt complexes for aqueous symmetric redox flow batteries. <i>Chemical Communications</i> , 2020 , 56, 3605-3608	5.8	5
156	Update to Our Reader, Reviewer, and Author Communities April 2020. <i>Energy & Fuels</i> , 2020 , 34, 5107-5108	4.1	
155	Reconsidering X-ray Photoelectron Spectroscopy Quantification of Substitution Levels of Monolayers on Unoxidized Silicon Surfaces. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16461-16477	3.8	1
154	Adhesion and Surface Layers on Silicon Anodes Suppress Formation of c-Li ₃ .75Si and Solid-Electrolyte Interphase. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1609-1616	6.1	8
153	Update to Our Reader, Reviewer, and Author Communities April 2020. <i>Organometallics</i> , 2020 , 39, 1665-1666	9.66	
152	Confronting Racism in Chemistry Journals. <i>Journal of Chemical Health and Safety</i> , 2020 , 27, 198-200	1.7	

151	Optimization of the Bulk Heterojunction of All-Small-Molecule Organic Photovoltaics Using Design of Experiment and Machine Learning Approaches. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5459-5467	9.5	11
150	Stabilizing Tin Anodes in Sodium-Ion Batteries by Alloying with Silicon. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9950-9962	6.1	3
149	van der Waals Epitaxy of Soft Twisted Bilayers: Lattice Relaxation and Mass Density Waves. <i>ACS Nano</i> , 2020 , 14, 13441-13450	16.7	3
148	Festschrift in Honor of Prof. Jean-Luc Brédas on His 65th Birthday. <i>Chemistry of Materials</i> , 2019 , 31, 6307-6308	9.0	0
147	Three Pillars of Effective Research. Measurements, Analysis, and Dissemination [A Virtual Issue]. <i>ACS Energy Letters</i> , 2019 , 4, 2473-2474	20.1	2
146	Understanding the Mechanism of Enhanced Cycling Stability in Sn/Bb Composite Na-Ion Battery Anodes: Operando Alloying and Diffusion Barriers. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5133-5139	6.1	14
145	Alternating Silicon and Carbon Multilayer-Structured Anodes Suppress Formation of the c-Li _{3.75} Si Phase. <i>Chemistry of Materials</i> , 2019 , 31, 6578-6589	9.6	12
144	Plasmonic Stamps Fabricated by Gold Dewetting on PDMS for Catalyzing Hydrosilylation on Silicon Surfaces. <i>ACS Applied Nano Materials</i> , 2019 , 2, 3238-3245	5.6	6
143	Sb/Bi Alloys and Multilayers for Sodium-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2205-2213	22.1	40
142	Chemistry of Materials/30th Anniversary Editorial Interview with Prof. Charlene Crawley. <i>Chemistry of Materials</i> , 2019 , 31, 3849-3850	9.6	
141	In-Operando Study of the Effects of Solvent Additives on the Stability of Organic Solar Cells Based on PTB7-Th:PC71BM. <i>ACS Energy Letters</i> , 2019 , 4, 464-470	20.1	47
140	UV-Induced Ferroelectric Phase Transformation in PVDF Thin Films. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800363	6.4	12
139	UV-Initiated Si/Si ₂ Se ₃ and Si/Si ₂ Te ₃ Bond Formation on Si(111): Coverage, Mechanism, and Electronics. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13803-13814	3.8	16
138	Vapor-Phase Nanopatterning of Aminosilanes with Electron Beam Lithography: Understanding and Minimizing Background Functionalization. <i>Langmuir</i> , 2018 , 34, 4780-4792	4	8
137	Methylammonium Cation Dynamics in Methylammonium Lead Halide Perovskites: A Solid-State NMR Perspective. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 1560-1573	2.8	77
136	How To Optimize Materials and Devices via Design of Experiments and Machine Learning: Demonstration Using Organic Photovoltaics. <i>ACS Nano</i> , 2018 , 12, 7434-7444	16.7	130
135	Sn/Sb for Sodium Ion Battery Anodes: Phase Transformations Responsible for Enhanced Cycling Stability Revealed by In Situ TEM. <i>ACS Energy Letters</i> , 2018 , 3, 1670-1676	20.1	68
134	Silicon-Carbon Bond Formation on Porous Silicon 2018 , 1003-1014		

133	Size and Surface Effects of Silicon Nanocrystals in Graphene Aerogel Composite Anodes for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 7782-7792	9.6	35
132	Preferential Alignment of Incommensurate Block Copolymer Dot Arrays Forming Moiré Superstructures. <i>ACS Nano</i> , 2017 , 11, 3237-3246	16.7	16
131	Lead-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017 , 2, 904-905	20.1	121
130	SnBi ₂ Sb alloys as anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9661-9670	13	91
129	Prof. Millie Dresselhaus (1930-2017), Carbon Nanomaterials Pioneer. <i>ACS Nano</i> , 2017 , 11, 2307-2308	16.7	1
128	Understanding the Effects of a High Surface Area Nanostructured Indium Tin Oxide Electrode on Organic Solar Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38706-38715	9.5	12
127	That's a Wrap: Graphene-Wrapped Magnetite Anodes for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 6561-6562	9.6	1
126	Nanopatterning via Solvent Vapor Annealing of Block Copolymer Thin Films. <i>Chemistry of Materials</i> , 2017 , 29, 176-188	9.6	74
125	Silicon-Carbon Bond Formation on Porous Silicon 2017 , 1-12		
124	Polymers, Plasmons, and Patterns: Mechanism of Plasmon-Induced Hydrosilylation on Silicon. <i>Chemistry of Materials</i> , 2016 , 28, 9158-9168	9.6	11
123	Role of Interfacial Layers in Organic Solar Cells: Energy Level Pinning versus Phase Segregation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18238-48	9.5	43
122	Conjugation of A and B Blood Group Structures to Silica Microparticles for the Detection of Antigen-Specific B Cells. <i>Bioconjugate Chemistry</i> , 2016 , 27, 705-15	6.3	7
121	ABH-Glycan Microarray Characterizes ABO Subtype Antibodies: Fine Specificity of Immune Tolerance After ABO-Incompatible Transplantation. <i>American Journal of Transplantation</i> , 2016 , 16, 1548-58	8.7	29
120	Sequential Nanopatterned Block Copolymer Self-Assembly on Surfaces. <i>Langmuir</i> , 2016 , 32, 5890-8	4	15
119	Expanding the Repertoire of Molecular Linkages to Silicon: Si-S, Si-Se, and Si-Te Bonds. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11091-9	9.5	18
118	Materials + Energy + International Collaboration = Fundamental Insights. <i>Chemistry of Materials</i> , 2016 , 28, 2883-2885	9.6	
117	From Molecules to Surfaces: Radical-Based Mechanisms of Si-S and Si-Se Bond Formation on Silicon. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9730-8	16.4	29
116	Donor-acceptor small molecules for organic photovoltaics: single-atom substitution (Se or S). <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8188-99	9.5	31

115	Oxygen Evolution Catalyzed by Nickel-Iron Oxide Nanocrystals with a Nonequilibrium Phase. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19755-63	9.5	41
114	Automated Defect and Correlation Length Analysis of Block Copolymer Thin Film Nanopatterns. <i>PLoS ONE</i> , 2015 , 10, e0133088	3.7	39
113	Chemistry of Materials, Editors' Choice, and Twitter. <i>Chemistry of Materials</i> , 2015 , 27, 649-649	9.6	
112	Nanoscale plasmonic stamp lithography on silicon. <i>ACS Nano</i> , 2015 , 9, 2184-93	16.7	22
111	Silicon-Carbon Bond Formation on Porous Silicon 2014 , 1-11		
110	Father of Mesoporous Materials: Galen D. Stucky. <i>Chemistry of Materials</i> , 2014 , 26, 5819-5820	9.6	1
109	Organic Photovoltaics: An Early Innovator. <i>Chemistry of Materials</i> , 2014 , 26, 5181-5182	9.6	0
108	Elucidating the Surface Chemistry of Zinc Phosphide Nanoparticles Through Ligand Exchange. <i>Chemistry of Materials</i> , 2014 , 26, 4653-4661	9.6	26
107	Mastering the Art of Scientific Publication. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3519-21	6.4	4
106	Nanomaterials Pioneers: Nikoobakht and El-Sayed. <i>Chemistry of Materials</i> , 2014 , 26, 4669-4670	9.6	0
105	Phase-Pure Crystalline Zinc Phosphide Nanoparticles: Synthetic Approaches and Characterization. <i>Chemistry of Materials</i> , 2014 , 26, 1925-1935	9.6	44
104	Deconvoluting the mechanism of microwave annealing of block copolymer thin films. <i>ACS Nano</i> , 2014 , 8, 3979-91	16.7	53
103	Just Accepted, Most Read, and New Faces. <i>Chemistry of Materials</i> , 2014 , 26, 1983-1984	9.6	
102	Nickel/Iron Oxide Nanocrystals with a Nonequilibrium Phase: Controlling Size, Shape, and Composition. <i>Chemistry of Materials</i> , 2014 , 26, 4796-4804	9.6	31
101	Illuminating Silicon Surface Hydrosilylation: An Unexpected Plurality of Mechanisms. <i>Chemistry of Materials</i> , 2014 , 26, 763-772	9.6	120
100	Silicon-Carbon Bond Formation on Porous Silicon 2014 , 683-693		3
99	Spray coated high-conductivity PEDOT:PSS transparent electrodes for stretchable and mechanically-robust organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 110, 98-106	6.4	146
98	Solution-processed zinc phosphide (Zn ₃ P ₂) colloidal semiconducting nanocrystals for thin film photovoltaic applications. <i>ACS Nano</i> , 2013 , 7, 8136-46	16.7	59

97	Conversion of bilayers of PS-b-PDMS block copolymer into closely packed, aligned silica nanopatterns. <i>ACS Nano</i> , 2013 , 7, 5595-606	16.7	25
96	Reporting performance in organic photovoltaic devices. <i>ACS Nano</i> , 2013 , 7, 4708-14	16.7	98
95	Rolling silver nanowire electrodes: simultaneously addressing adhesion, roughness, and conductivity. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12663-71	9.5	97
94	Morphology control and nanoscale patterning of small molecule organic thin films 2012 ,		1
93	Self-assembly of carboxylated polythiophene nanowires for improved bulk heterojunction morphology in polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11354		24
92	Preferential face deposition of gold nanoparticles on silicon nanowires by galvanic displacement. <i>CrystEngComm</i> , 2012 , 14, 5230	3.3	22
91	Density doubling of block copolymer templated features. <i>Nano Letters</i> , 2012 , 12, 264-8	11.5	32
90	Screening of Heterogeneous Multimetallic Nanoparticle Catalysts Supported on Metal Oxides for Mono-, Poly-, and Heteroaromatic Hydrogenation Activity. <i>ACS Catalysis</i> , 2012 , 2, 1524-1534	13.1	52
89	Block copolymer-templated chemical nanopatterning on pyrolyzed photoresist carbon films. <i>Chemical Communications</i> , 2012 , 48, 9741-3	5.8	11
88	UV-initiated hydrosilylation on hydrogen-terminated silicon (111): rate coefficient increase of two orders of magnitude in the presence of aromatic electron acceptors. <i>Langmuir</i> , 2012 , 28, 16285-93	4	32
87	Work Function Control of Interfacial Buffer Layers for Efficient and Air-Stable Inverted Low-Bandgap Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2012 , 2, 361-368	21.8	53
86	Organic Photovoltaics: Work Function Control of Interfacial Buffer Layers for Efficient and Air-Stable Inverted Low-Bandgap Organic Photovoltaics (Adv. Energy Mater. 3/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 278-278	21.8	
85	Toward a mechanistic understanding of exciton-mediated hydrosilylation on nanocrystalline silicon. <i>Journal of the American Chemical Society</i> , 2012 , 134, 489-97	16.4	45
84	Rapid Assembly of Nanolines with Precisely Controlled Spacing from Binary Blends of Block Copolymers. <i>Macromolecules</i> , 2011 , 44, 9752-9757	5.5	41
83	C60 fullerene nanocolumns--polythiophene heterojunctions for inverted organic photovoltaic cells. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1887-94	9.5	27
82	Finely tailored performance of inverted organic photovoltaics through layer-by-layer interfacial engineering. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3962-70	9.5	31
81	Bulk Heterojunction Organic Photovoltaics Based on Carboxylated Polythiophenes and PCBM on Glass and Plastic Substrates. <i>Advanced Functional Materials</i> , 2011 , 21, 1816-1826	15.6	38
80	Summarize Your Work in 100 Milliseconds or Less... The Importance of the Table of Contents Image. <i>ACS Nano</i> , 2011 , 5, 7687-7689	16.7	7

79	Biocompatible carbohydrate-functionalized stainless steel surfaces: a new method for passivating biomedical implants. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1601-12	9.5	49
78	Indium tin oxide nanopillar electrodes in polymer/fullerene solar cells. <i>Nanotechnology</i> , 2011 , 22, 085706	9.4	62
77	Constructing metal-based structures on nanopatterned etched silicon. <i>ACS Nano</i> , 2011 , 5, 5015-24	16.7	20
76	Electrostatic layer-by-layer assembly of CdSe nanorod/polymer nanocomposite thin films. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 219-29	9.5	47
75	In memoriam, Victor S.-Y. Lin. <i>ACS Nano</i> , 2010 , 4, 2973-4	16.7	1
74	Building upon patterned organic monolayers produced via catalytic stamp lithography. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 2301-7	9.5	14
73	Transport Properties of Thiophenes: Insights from Density-Functional Theory Modeling Using Dispersion-Correcting Potentials. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10952-10961	3.8	7
72	Screening of bimetallic heterogeneous nanoparticle catalysts for arene hydrogenation activity under ambient conditions. <i>Inorganic Chemistry</i> , 2010 , 49, 2706-14	5.1	25
71	Fast assembly of ordered block copolymer nanostructures through microwave annealing. <i>ACS Nano</i> , 2010 , 4, 7021-9	16.7	125
70	Epitaxial growth of nanostructured gold films on germanium via galvanic displacement. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3515-24	9.5	33
69	Molecular layer deposition of thiol-ene multilayers on semiconductor surfaces. <i>Langmuir</i> , 2010 , 26, 12324	8	66
68	Surface area characterization of obliquely deposited metal oxide nanostructured thin films. <i>Langmuir</i> , 2010 , 26, 4368-76	4	79
67	Stable Inverted Polymer/Fullerene Solar Cells Using a Cationic Polythiophene Modified PEDOT:PSS Cathodic Interface. <i>Advanced Functional Materials</i> , 2010 , 20, 2404-2415	15.6	80
66	Thienylsilane-modified indium tin oxide as an anodic interface in polymer/fullerene solar cells. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 279-88	9.5	33
65	Nanoscale patterning of organic monolayers by catalytic stamp lithography: scope and limitations. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2711-20	9.5	21
64	Heteroepitaxial growth of gold nanostructures on silicon by galvanic displacement. <i>ACS Nano</i> , 2009 , 3, 2809-17	16.7	88
63	Using cylindrical domains of block copolymers to self-assemble and align metallic nanowires. <i>ACS Nano</i> , 2008 , 2, 489-501	16.7	266
62	Characterization of the Interface of Gold and Silver Nanostructures on InP and GaAs Synthesized via Galvanic Displacement. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12291-12298	3.8	32

61	Specific detection of proteins using photonic crystal waveguides. <i>Optics Express</i> , 2008 , 16, 15949-57	3.3	91
60	Catalytic stamp lithography for sub-100 nm patterning of organic monolayers. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17656-7	16.4	39
59	Large area assembled periodic nanoarrays by block copolymer templating and glancing angle deposition 2008 ,		2
58	Specific detection of proteins using nanomechanical resonators. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 613-617	8.5	32
57	Block copolymer mediated deposition of metal nanoparticles on germanium nanowires. <i>Chemical Communications</i> , 2007 , 1438-40	5.8	11
56	Assembly of aligned linear metallic patterns on silicon. <i>Nature Nanotechnology</i> , 2007 , 2, 500-6	28.7	323
55	Block Copolymer Templated Chemistry for the Formation of Metallic Nanoparticle Arrays on Semiconductor Surfaces. <i>Chemistry of Materials</i> , 2007 , 19, 5090-5101	9.6	176
54	Block copolymer templated etching on silicon. <i>Nano Letters</i> , 2007 , 7, 464-9	11.5	53
53	Analysis of porosity in porous silicon using hyperpolarized ¹²⁹ Xe two-dimensional exchange experiments. <i>Solid State Nuclear Magnetic Resonance</i> , 2006 , 29, 85-9	3.1	26
52	Synthesis and SERS Properties of Nanocrystalline Gold Octahedra Generated from Thermal Decomposition of H ₂ AuCl ₄ in Block Copolymers. <i>Advanced Materials</i> , 2006 , 18, 3233-3237	24	138
51	Dehydrogenative silane coupling on silicon surfaces via early transition metal catalysis. <i>Inorganic Chemistry</i> , 2006 , 45, 1096-102	5.1	37
50	Trapping silicon surface-based radicals. <i>Langmuir</i> , 2006 , 22, 6214-21	4	50
49	The Quest for Longevity and Stability of Iridium-based Hydrogenation Catalysts: N-Heterocyclic Carbenes and Crabtree's Catalyst 2006 , 241-255		1
48	Nanoscale patterning of two metals on silicon surfaces using an ABC triblock copolymer template. <i>Journal of the American Chemical Society</i> , 2006 , 128, 5877-86	16.4	118
47	High surface area silicon materials: fundamentals and new technology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 217-25	3	47
46	The search for new hydrogenation catalyst motifs based on N-heterocyclic carbene ligands. <i>Inorganica Chimica Acta</i> , 2006 , 359, 2786-2797	2.7	100
45	Block copolymer-templated chemistry on Si, Ge, InP, and GaAs surfaces. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8932-3	16.4	113
44	Silver nano-inukshuks on germanium. <i>Nano Letters</i> , 2005 , 5, 815-9	11.5	123

43	Electrochemically driven organic monolayer formation on silicon surfaces using alkylammonium and alkylphosphonium reagents. <i>Surface Science</i> , 2005 , 590, 154-161	1.8	27
42	Synthesis and patterning of gold nanostructures on InP and GaAs via galvanic displacement. <i>Small</i> , 2005 , 1, 1076-81	11	49
41	Optical sensing of amine vapors with a series of tin compounds. <i>Chemical Communications</i> , 2004 , 2028-9	5.8	16
40	Chemistry. Chemistry with nanoscale perfection. <i>Science</i> , 2004 , 304, 692-3	33.3	27
39	Metallic Nanostructures via Static Plowing Lithography. <i>Nano Letters</i> , 2003 , 3, 1043-1047	11.5	51
38	Nanopatterning of alkynes on hydrogen-terminated silicon surfaces by scanning probe-induced cathodic electrografting. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11334-9	16.4	118
37	HARNESSING SYNTHETIC VERSATILITY TOWARD INTELLIGENT INTERFACIAL DESIGN: ORGANIC FUNCTIONALIZATION OF NANOSTRUCTURED SILICON SURFACES 2003 , 227-259		2
36	Functionalization of Porous Silicon with Alkenes and Alkynes via Carbocation-Mediated Hydrosilylation. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 737, 575		
35	New Pairs of Inks and Papers for Photolithography, Microcontact Printing, and Scanning Probe Nanolithography. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 737, 409		
34	Electroless Deposition and Patterning of Morphologically Complex Precious Metal Films on Semiconductor Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 737, 588		
33	Hydride Abstraction Initiated Hydrosilylation of Terminal Alkenes and Alkynes on Porous Silicon. <i>Langmuir</i> , 2002 , 18, 2971-2974	4	98
32	Catalytic olefin hydrogenation using N-heterocyclic carbene-phosphine complexes of iridium. <i>Chemical Communications</i> , 2002 , 2518-2519	5.8	124
31	Electroless Nanoparticle Film Deposition Compatible with Photolithography, Microcontact Printing, and Dip-Pen Nanolithography Patterning Technologies. <i>Nano Letters</i> , 2002 , 2, 1369-1372	11.5	120
30	Organometallic chemistry on silicon and germanium surfaces. <i>Chemical Reviews</i> , 2002 , 102, 1271-308	68.1	1537
29	New Approaches Toward the Formation of Silicon-Carbon Bonds on Porous Silicon. <i>Comments on Inorganic Chemistry</i> , 2002 , 23, 179-203	3.9	48
28	Controlled Electroless Deposition of Noble Metal Nanoparticle Films on Germanium Surfaces. <i>Nano Letters</i> , 2002 , 2, 1067-1071	11.5	192
27	Transition metal mediated surface modification of porous silicon. <i>Tetrahedron</i> , 2001 , 57, 5131-5136	2.4	27
26	Diamantoberflächen: eigentlich nur große organische Moleküle?. <i>Angewandte Chemie</i> , 2001 , 113, 548-550	3.6	

25	Diamond Surfaces: Just Big Organic Molecules?. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 532-534	16.4	22
24	Positive and negative photopatterning of metal oxides on silicon via bipolar electrochemical deposition. <i>Chemical Communications</i> , 2001 , 1614-5	5.8	3
23	Exciton-mediated hydrosilylation on photoluminescent nanocrystalline silicon. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7821-30	16.4	225
22	Probing the mechanisms of enantioselective hydrogenation of simple olefins with chiral rhodium catalysts in the presence of anions. <i>Chemistry - A European Journal</i> , 2000 , 6, 139-50	4.8	38
21	Three Methods for Stabilization and Functionalization of Porous Silicon Surfaces via Hydrosilylation and Electrografting Reactions. <i>Physica Status Solidi A</i> , 2000 , 182, 109-115		60
20	Chemical and Biological Applications of Porous Silicon Technology. <i>Advanced Materials</i> , 2000 , 12, 859-862	24	386
19	Preparation and functionalization of hydride terminated porous germanium. <i>Chemical Communications</i> , 2000 , 1669-1670	5.8	40
18	Hydrogermylation of Alkenes and Alkynes on Hydride-Terminated Ge(100) Surfaces. <i>Langmuir</i> , 2000 , 16, 7737-7741	4	113
17	Effects of Organic Monolayer Formation on Electrochemiluminescence Behavior of Porous Silicon. <i>Chemistry of Materials</i> , 2000 , 12, 2151-2156	9.6	27
16	Functionalization of Silicon Surfaces for Device Applications. <i>Journal of the Association for Laboratory Automation</i> , 1999 , 4, 36-39		2
15	Desorption-ionization mass spectrometry on porous silicon. <i>Nature</i> , 1999 , 399, 243-6	50.4	959
14	Metal Mediated Reactions on Porous Silicon Surfaces. <i>Journal of Solid State Chemistry</i> , 1999 , 147, 251-253	33	62
13	Derivatized Mesoporous Silicon with Dramatically Improved Stability in Simulated Human Blood Plasma. <i>Advanced Materials</i> , 1999 , 11, 1505-1507	24	163
12	Anodic and cathodic electrografting of alkynes on porous silicon. <i>Chemical Communications</i> , 1999 , 2479-2480	3	80
11	Organometallic chemistry on silicon surfaces: formation of functional monolayers bound through Si-H bonds. <i>Chemical Communications</i> , 1999 , 1051-1060	5.8	280
10	Lewis Acid Mediated Hydrosilylation on Porous Silicon Surfaces. <i>Journal of the American Chemical Society</i> , 1999 , 121, 11491-11502	16.4	289
9	Photoluminescence of porous silicon surfaces stabilized through Lewis acid mediated hydrosilylation. <i>Journal of Luminescence</i> , 1998 , 80, 29-35	3.8	40
8	Photostrukturierbare Hydrosilylierung von porösem Silicium. <i>Angewandte Chemie</i> , 1998 , 110, 3447-3450	3.6	7

7	Photopatterned Hydrosilylation on Porous Silicon. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 3257-3260	16.4	224
6	Lewis Acid Mediated Functionalization of Porous Silicon with Substituted Alkenes and Alkynes. <i>Journal of the American Chemical Society</i> , 1998 , 120, 1339-1340	16.4	311
5	Cylindrical Sheet Peptide Assemblies. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8949-8962	16.4	163
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