

Paul S Weiss

List of Publications by Citations

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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.

284 papers	20,976 citations	71 h-index	135 g-index
514 ext. papers	23,794 ext. citations	12.3 avg, IF	6.84 L-index

#	Paper	IF	Citations
284	Conductance switching in single molecules through conformational changes. <i>Science</i> , 2001 , 292, 2303-7	33.3	1133
283	Are Single Molecular Wires Conducting?. <i>Science</i> , 1996 , 271, 1705-1707	33.3	1085
282	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
281	Patterning self-assembled monolayers. <i>Progress in Surface Science</i> , 2004 , 75, 1-68	6.6	665
280	Cluster-assembled materials. <i>ACS Nano</i> , 2009 , 3, 244-55	16.7	528
279	Visibly transparent polymer solar cells produced by solution processing. <i>ACS Nano</i> , 2012 , 6, 7185-90	16.7	434
278	Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. <i>Chemical Society Reviews</i> , 2012 , 41, 97-114	58.5	432
277	Viologen-mediated assembly of and sensing with carboxylatopillar[5]arene-modified gold nanoparticles. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1570-6	16.4	402
276	Electron Transfer through Organic Molecules. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 8122-8127	3.4	350
275	Controlling Motion at the Nanoscale: Rise of the Molecular Machines. <i>ACS Nano</i> , 2015 , 9, 7746-68	16.7	339
274	Fused silver nanowires with metal oxide nanoparticles and organic polymers for highly transparent conductors. <i>ACS Nano</i> , 2011 , 5, 9877-82	16.7	326
273	Insertion, Conductivity, and Structures of Conjugated Organic Oligomers in Self-Assembled Alkanethiol Monolayers on Au{111}. <i>Journal of the American Chemical Society</i> , 1998 , 120, 2721-2732	16.4	313
272	Aptamer-field-effect transistors overcome Debye length limitations for small-molecule sensing. <i>Science</i> , 2018 , 362, 319-324	33.3	287
271	Surface defects on plate-shaped silver nanoparticles contribute to its hazard potential in a fish gill cell line and zebrafish embryos. <i>ACS Nano</i> , 2012 , 6, 3745-59	16.7	279
270	Nanotools for neuroscience and brain activity mapping. <i>ACS Nano</i> , 2013 , 7, 1850-66	16.7	248
269	Reversible photo-switching of single azobenzene molecules in controlled nanoscale environments. <i>Nano Letters</i> , 2008 , 8, 1644-8	11.5	244
268	Imaging Xe with a low-temperature scanning tunneling microscope. <i>Physical Review Letters</i> , 1991 , 66, 1189-1192	7.4	238

267	Ring-Opening Metathesis Polymerization from Surfaces. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4088-4089	16.4	237
266	Site dependence of the apparent shape of a molecule in scanning tunneling microscope images: Benzene on Pt{111}. <i>Physical Review Letters</i> , 1993 , 71, 3139-3142	7.4	227
265	A mechanical actuator driven electrochemically by artificial molecular muscles. <i>ACS Nano</i> , 2009 , 3, 291-300	16.7	220
264	Electrode Degradation in Lithium-Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 1243-1295	16.7	209
263	Porous Multishelled Ni2P Hollow Microspheres as an Active Electrocatalyst for Hydrogen and Oxygen Evolution. <i>Chemistry of Materials</i> , 2017 , 29, 8539-8547	9.6	195
262	Active molecular plasmonics: controlling plasmon resonances with molecular switches. <i>Nano Letters</i> , 2009 , 9, 819-25	11.5	191
261	The state of nanoparticle-based nanoscience and biotechnology: progress, promises, and challenges. <i>ACS Nano</i> , 2012 , 6, 8468-83	16.7	188
260	Directing substrate morphology via self-assembly: ligand-mediated scission of gallium-indium microspheres to the nanoscale. <i>Nano Letters</i> , 2011 , 11, 5104-10	11.5	188
259	Interplay between materials and microfluidics. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	179
258	Emergence of Liquid Metals in Nanotechnology. <i>ACS Nano</i> , 2019 , 13, 7388-7395	16.7	169
257	Bottom-up graphene-nanoribbon fabrication reveals chiral edges and enantioselectivity. <i>ACS Nano</i> , 2014 , 8, 9181-7	16.7	169
256	Neuroscience. The brain activity map. <i>Science</i> , 2013 , 339, 1284-5	33.3	147
255	Supramolecular Assemblies on Surfaces: Nanopatterning, Functionality, and Reactivity. <i>ACS Nano</i> , 2018 , 12, 7445-7481	16.7	146
254	Hybrid strategies in nanolithography. <i>Reports on Progress in Physics</i> , 2010 , 73, 036501	14.4	144
253	Fabrication, assembly, and characterization of molecular electronic components. <i>Proceedings of the IEEE</i> , 2003 , 9, 1785-1802	14.3	144
252	Atomic-scale dynamics of a two-dimensional gas-solid interface. <i>Science</i> , 1994 , 266, 99-102	33.3	142
251	Directed Self-Assembly to Create Molecular Terraces with Molecularly Sharp Boundaries in Organic Monolayers. <i>Journal of the American Chemical Society</i> , 1999 , 121, 8017-8021	16.4	137
250	From the bottom up: dimensional control and characterization in molecular monolayers. <i>Chemical Society Reviews</i> , 2013 , 42, 2725-45	58.5	136

- 249 Phase Separation within a Binary Self-Assembled Monolayer on Au{111} Driven by an Amide-Containing Alkanethiol. *Journal of Physical Chemistry B*, **2001**, 105, 1119-1122 3.4 128
- 248 The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth Möhwald. *ACS Nano*, **2019**, 13, 6151-6169 16.7 127
- 247 Molecular engineering and measurements to test hypothesized mechanisms in single molecule conductance switching. *Journal of the American Chemical Society*, **2006**, 128, 1959-67 16.4 125
- 246 Molecular engineering of the polarity and interactions of molecular electronic switches. *Journal of the American Chemical Society*, **2005**, 127, 17421-6 16.4 119
- 245 Fabrication of High-Performance Ultrathin In₂O₃ Film Field-Effect Transistors and Biosensors Using Chemical Lift-Off Lithography. *ACS Nano*, **2015**, 9, 4572-82 16.7 117
- 244 Cluster-assembled materials: toward nanomaterials with precise control over properties. *ACS Nano*, **2010**, 4, 235-40 16.7 117
- 243 Subtractive patterning via chemical lift-off lithography. *Science*, **2012**, 337, 1517-21 33.3 115
- 242 Adsorption and accommodation of Xe on Pt{111}. *Physical Review Letters*, **1992**, 69, 2240-2243 7.4 115
- 241 Interactions and dynamics of benzene on Cu{111} at low temperature. *Surface Science*, **1995**, 338, 41-59 1.8 113
- 240 Molecular switches and motors on surfaces. *Annual Review of Physical Chemistry*, **2013**, 64, 605-30 15.7 107
- 239 Printable Ultrathin Metal Oxide Semiconductor-Based Conformal Biosensors. *ACS Nano*, **2015**, 9, 12174-81 16.7 105
- 238 Structures and displacement of 1-adamantanethiol self-assembled monolayers on Au{111}. *Journal of the American Chemical Society*, **2005**, 127, 8697-704 16.4 105
- 237 Tools for the Microbiome: Nano and Beyond. *ACS Nano*, **2016**, 10, 6-37 16.7 99
- 236 Nanometer-scale phase separation in mixed composition self-assembled monolayers. *Nanotechnology*, **1996**, 7, 438-442 3.4 97
- 235 Mediating stochastic switching of single molecules using chemical functionality. *Journal of the American Chemical Society*, **2004**, 126, 12214-5 16.4 97
- 234 Molecular plasmonics for biology and nanomedicine. *Nanomedicine*, **2012**, 7, 751-70 5.6 96
- 233 Incident-angle-modulated molecular plasmonic switches: a case of weak exciton-plasmon coupling. *Nano Letters*, **2011**, 11, 2061-5 11.5 96
- 232 Functional molecules and assemblies in controlled environments: formation and measurements. *Accounts of Chemical Research*, **2008**, 41, 1772-81 24.3 95

231	On the issue of transparency and reproducibility in nanomedicine. <i>Nature Nanotechnology</i> , 2019 , 14, 629-635	28.7	92
230	Substrate-mediated interactions and intermolecular forces between molecules adsorbed on surfaces. <i>Accounts of Chemical Research</i> , 2003 , 36, 945-53	24.3	91
229	Surface-enhanced Raman spectroscopy to probe reversibly photoswitchable azobenzene in controlled nanoscale environments. <i>Nano Letters</i> , 2011 , 11, 3447-52	11.5	89
228	The Role of Buried Hydrogen Bonds in Self-Assembled Mixed Composition Thiols on Au{111}. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10630-10636	3.4	82
227	Adsorbate-substrate vibrational modes of benzene on Ag(110) resolved with scanning tunneling spectroscopy. <i>Physical Review Letters</i> , 2001 , 86, 1050-3	7.4	81
226	Electrons, photons, and force: quantitative single-molecule measurements from physics to biology. <i>ACS Nano</i> , 2011 , 5, 693-729	16.7	79
225	Creating favorable geometries for directing organic photoreactions in alkanethiolate monolayers. <i>Science</i> , 2011 , 331, 1312-5	33.3	79
224	Emerging Trends in Micro- and Nanoscale Technologies in Medicine: From Basic Discoveries to Translation. <i>ACS Nano</i> , 2017 , 11, 5195-5214	16.7	78
223	Relative conductances of alkaneselenolate and alkanethiolate monolayers on Au{111}. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20343-9	3.4	78
222	Self-assembly of carboranethiol isomers on Au111: intermolecular interactions determined by molecular dipole orientations. <i>ACS Nano</i> , 2009 , 3, 527-36	16.7	77
221	Precision-Guided Nanospears for Targeted and High-Throughput Intracellular Gene Delivery. <i>ACS Nano</i> , 2018 , 12, 4503-4511	16.7	76
220	Imaging Substrate-Mediated Interactions. <i>Science</i> , 1996 , 274, 118-119	33.3	76
219	Interface control in organic electronics using mixed monolayers of carboranethiol isomers. <i>Nano Letters</i> , 2014 , 14, 2946-51	11.5	75
218	Tuning interactions between ligands in self-assembled double-decker phthalocyanine arrays. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10984-5	16.4	75
217	Controlling the band gap energy of cluster-assembled materials. <i>Accounts of Chemical Research</i> , 2013 , 46, 2385-95	24.3	73
216	Formation and manipulation of protopolymer chains. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16772-6	16.4	71
215	Control and placement of molecules via self-assembly. <i>Nanotechnology</i> , 2001 , 12, 231-237	3.4	71
214	Surface Dipole Control of Liquid Crystal Alignment. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5957-67	16.4	71

213	Imaging physical phenomena with local probes: From electrons to photons. <i>Reviews of Modern Physics</i> , 2012 , 84, 1343-1381	40.5	70
212	Changing stations in single bistable rotaxane molecules under electrochemical control. <i>ACS Nano</i> , 2010 , 4, 3697-701	16.7	70
211	Ordered Local Domain Structures of Decaneselenolate and Dodecaneselenolate Monolayers on Au{111}. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9834-9841	3.4	70
210	Microdisplacement printing. <i>Nano Letters</i> , 2005 , 5, 1834-7	11.5	69
209	Self-Assembly Strategy for Fabricating Connected Graphene Nanoribbons. <i>ACS Nano</i> , 2015 , 9, 12035-44	16.7	68
208	Scanning electron microscopy of nanoscale chemical patterns. <i>ACS Nano</i> , 2007 , 1, 191-201	16.7	68
207	Matrix-Mediated Control of Stochastic Single Molecule Conductance Switching. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4871-4877	1.4	68
206	Molecular, Supramolecular, and Macromolecular Motors and Artificial Muscles. <i>MRS Bulletin</i> , 2009 , 34, 671-681	3.2	67
205	Electronic substrate-mediated interactions. <i>Surface Science Reports</i> , 2012 , 67, 19-81	12.9	65
204	Multiple-Patterning Nanosphere Lithography for Fabricating Periodic Three-Dimensional Hierarchical Nanostructures. <i>ACS Nano</i> , 2017 , 11, 10384-10391	16.7	63
203	Benzene on Au[111] at 4 K: monolayer growth and tip-induced molecular cascades. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10787-93	16.4	63
202	Real-time measurements of conductance switching and motion of single oligo(phenylene ethynylene) molecules. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10352-3	16.4	62
201	Scanning Probe Studies of Single Nanostructures. <i>Chemical Reviews</i> , 1999 , 99, 1983-1990	68.1	62
200	Evolution of Strategies for Self-Assembly and Hookup of Molecule-Based Devices. <i>Annals of the New York Academy of Sciences</i> , 1998 , 852, 349-370	6.5	60
199	Long-range electronic interactions at a high temperature: bromine adatom islands on Cu(111). <i>Physical Review Letters</i> , 2007 , 98, 206108	7.4	60
198	Control of alkanethiolate monolayer structure using vapor-phase annealing. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11462-3	16.4	60
197	Controlling band gap energies in cluster-assembled ionic solids through internal electric fields. <i>ACS Nano</i> , 2010 , 4, 5813-8	16.7	59
196	Observation and manipulation of subsurface hydride in Pd[111] and its effect on surface chemical, physical, and electronic properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 17907-11	11.5	59

195	Analyzing Spin Selectivity in DNA-Mediated Charge Transfer via Fluorescence Microscopy. <i>ACS Nano</i> , 2017 , 11, 7516-7526	16.7	57
194	Cage molecules for self-assembly. <i>Materials Science and Engineering Reports</i> , 2010 , 70, 188-208	30.9	56
193	Nano Day: Celebrating the Next Decade of Nanoscience and Nanotechnology. <i>ACS Nano</i> , 2016 , 10, 9093-9103	16.7	56
192	NaTiO Nanoplatelets and Nanosheets Derived from a Modified Exfoliation Process for Use as a High-Capacity Sodium-Ion Negative Electrode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 1416-1423	8.5	54
191	Identifying reactive intermediates in the Ullmann coupling reaction by scanning tunneling microscopy and spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 13167-72	2.8	54
190	Photoresponsive molecules in well-defined nanoscale environments. <i>Advanced Materials</i> , 2013 , 25, 302-14	12.4	53
189	Hierarchically Patterned Polydopamine-Containing Membranes for Periodontal Tissue Engineering. <i>ACS Nano</i> , 2019 , 13, 3830-3838	16.7	52
188	Lithium-Ion Insertion Properties of Solution-Exfoliated Germanane. <i>ACS Nano</i> , 2017 , 11, 7995-8001	16.7	48
187	Functional and spectroscopic measurements with scanning tunneling microscopy. <i>Annual Review of Analytical Chemistry</i> , 2008 , 1, 857-82	12.5	48
186	Microcontact insertion printing. <i>Applied Physics Letters</i> , 2007 , 90, 063114	3.4	48
185	Cross-correlation image tracking for drift correction and adsorbate analysis. <i>Review of Scientific Instruments</i> , 2002 , 73, 313-317	1.7	48
184	Heads and tails: simultaneous exposed and buried interface imaging of monolayers. <i>ACS Nano</i> , 2009 , 3, 3115-21	16.7	47
183	Substrate-mediated intermolecular interactions: a quantitative single molecule analysis. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7255-60	16.4	47
182	Double-ink dip-pen nanolithography studies elucidate molecular transport. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1648-53	16.4	47
181	A double lamellae dropoff etching procedure for tungsten tips attached to tuning fork atomic force microscopy/scanning tunneling microscopy sensors. <i>Review of Scientific Instruments</i> , 2003 , 74, 1027-1030	1.7	47
180	Probing Electronic Properties of Conjugated and Saturated Molecules in Self-Assembled Monolayers. <i>Annals of the New York Academy of Sciences</i> , 1998 , 852, 145-168	6.5	44
179	Self-assembled monolayers of 2-Adamantanethiol on Au{111}: control of structure and displacement. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 3895-903	2.8	42
178	1-Adamantanethiolate monolayer displacement kinetics follow a universal form. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10741-6	16.4	42

177	Hybrid Approaches to Nanolithography: Photolithographic Structures with Precise, Controllable Nanometer-Scale Spacings Created by Molecular Rulers. <i>Advanced Materials</i> , 2006 , 18, 1020-1022	24	41
176	Two-dimensional crystal growth and stacking of bis(phthalocyaninato) rare earth sandwich complexes at the 1-phenyloctane/graphite interface. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1661-4	3.4	41
175	Spin Selectivity in Photoinduced Charge-Transfer Mediated by Chiral Molecules. <i>ACS Nano</i> , 2019 , 13, 4928-4946	16.7	40
174	Spectral diffusion in the tunneling spectra of ligand-stabilized undecagold clusters. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9266-7	16.4	40
173	Effects of Hindered Internal Rotation on Packing and Conductance of Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16761-16767	3.4	39
172	Interaction of CO molecules with surface state electrons on Ag(111). <i>Surface Science</i> , 2005 , 590, L253-L258	16.8	39
171	Surface-enhanced Raman spectroscopy to probe photoreaction pathways and kinetics of isolated reactants on surfaces: flat versus curved substrates. <i>Nano Letters</i> , 2012 , 12, 5362-8	11.5	38
170	Analyzing the Motion of Benzene on Au{111}: Single Molecule Statistics from Scanning Probe Images. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6167-6182	3.8	38
169	Silver nanoparticles boost charge-extraction efficiency in microbial fuel cells. <i>Science</i> , 2021 , 373, 1336-1340	34.9	38
168	Patients, Here Comes More Nanotechnology. <i>ACS Nano</i> , 2016 , 10, 8139-42	16.7	37
167	Cross-step place-exchange of oligo(phenylene-ethynylene) molecules. <i>Nano Letters</i> , 2005 , 5, 2292-7	11.5	37
166	Bio-Inspired NanoVilli Chips for Enhanced Capture of Tumor-Derived Extracellular Vesicles: Toward Non-Invasive Detection of Gene Alterations in Non-Small Cell Lung Cancer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13973-13983	9.5	36
165	Controlled DNA Patterning by Chemical Lift-Off Lithography: Matrix Matters. <i>ACS Nano</i> , 2015 , 9, 11439-54	16.7	36
164	Manipulating double-decker molecules at the liquid-solid interface. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16460-6	16.4	36
163	Acoustofluidic sonoporation for gene delivery to human hematopoietic stem and progenitor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10976-10982	11.5	35
162	Stealth Immune Properties of Graphene Oxide Enabled by Surface-Bound Complement Factor H. <i>ACS Nano</i> , 2016 , 10, 10161-10172	16.7	35
161	Exchange reactions between alkanethiolates and alkaneselenols on Au{111}. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8110-21	16.4	35
160	Effects of Embedded Dipole Layers on Electrostatic Properties of Alkanethiolate Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15815-15830	3.8	35

159	Dynamics of Solution Displacement in 1-Adamantanethiolate Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6740-6746	3.8	35
158	Biospecific Recognition of Tethered Small Molecules Diluted in Self-Assembled Monolayers. <i>Advanced Materials</i> , 2008 , 20, 164-167	24	35
157	Nanoelectronic Investigation Reveals the Electrochemical Basis of Electrical Conductivity in <i>Shewanella</i> and <i>Geobacter</i> . <i>ACS Nano</i> , 2016 , 10, 9919-9926	16.7	34
156	Native serotonin membrane receptors recognize 5-hydroxytryptophan-functionalized substrates: enabling small-molecule recognition. <i>ACS Chemical Neuroscience</i> , 2010 , 1, 495-504	5.7	34
155	Polarizabilities of adsorbed and assembled molecules: measuring the conductance through buried contacts. <i>ACS Nano</i> , 2010 , 4, 7630-6	16.7	34
154	Origins of Displacement in 1-Adamantanethiolate Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6747-6752	3.8	34
153	Exploiting intermolecular interactions and self-assembly for ultrahigh resolution nanolithography. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 2739		34
152	Polyserotonin Nanoparticles as Multifunctional Materials for Biomedical Applications. <i>ACS Nano</i> , 2018 , 12, 4761-4774	16.7	33
151	Differentiating amino acid residues and side chain orientations in peptides using scanning tunneling microscopy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18528-35	16.4	33
150	Controlled Adsorption Orientation for Double-Decker Complexes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2077-2080	3.8	33
149	Spin-Dependent Ionization of Chiral Molecular Films. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3863-3874	16.4	32
148	Copper Ion Binding Site in β -Amyloid Peptide. <i>Nano Letters</i> , 2016 , 16, 6282-6289	11.5	32
147	Reversible lability by in situ reaction of self-assembled monolayers. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2252-9	16.4	32
146	Transport rates vary with deposition time in dip-pen nanolithography. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23118-20	3.4	31
145	Footprints of a Surface Chemical Reaction: Dissociative Chemisorption of p-Diiodobenzene on Cu{111}. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 8005-8008	3.4	31
144	Polymer-Pen Chemical Lift-Off Lithography. <i>Nano Letters</i> , 2017 , 17, 3302-3311	11.5	30
143	Advances in nanolithography using molecular rulers. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 3116		30
142	An absence of lamin B1 in migrating neurons causes nuclear membrane ruptures and cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25870-25879	11.5	30

141	The Design and Science of Polyelemental Nanoparticles. <i>ACS Nano</i> , 2020 , 14, 6407-6413	16.7	29
140	Holey Graphene as a Weed Barrier for Molecules. <i>ACS Nano</i> , 2015 , 9, 10909-15	16.7	28
139	Pillar[5]arene-based tunable luminescent materials via supramolecular assembly-induced Förster resonance energy transfer enhancement. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 950-956	7.8	28
138	Work Function Control of Germanium through Carborane-Carboxylic Acid Surface Passivation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34592-34596	9.5	28
137	Vertical alignment of single-walled carbon nanotube films formed by electrophoretic deposition. <i>Langmuir</i> , 2008 , 24, 12936-42	4	27
136	Defect-Tolerant Aligned Dipoles within Two-Dimensional Plastic Lattices. <i>ACS Nano</i> , 2015 , 9, 4734-42	16.7	26
135	Additively Manufactured Gradient Porous Ti-6Al-4V Hip Replacement Implants Embedded with Cell-Laden Gelatin Methacryloyl Hydrogels. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22110-22123	9.5	26
134	Covalent chemistry on nanostructured substrates enables noninvasive quantification of gene rearrangements in circulating tumor cells. <i>Science Advances</i> , 2019 , 5, eaav9186	14.3	25
133	Dynamic double lattice of 1-adamantaneselenolate self-assembled monolayers on Au{111}. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19422-31	16.4	25
132	Position-Selected Molecular Ruler. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, L950-L953	1.4	25
131	Nano on reflection. <i>Nature Nanotechnology</i> , 2016 , 11, 828-834	28.7	25
130	Two-Dimensional Compact Variational Mode Decomposition. <i>Journal of Mathematical Imaging and Vision</i> , 2017 , 58, 294-320	1.6	24
129	Challenges and Opportunities in Designing Perovskite Nanocrystal Heterostructures. <i>ACS Energy Letters</i> , 2020 , 5, 2253-2255	20.1	24
128	Phenylalanine Monitoring via Aptamer-Field-Effect Transistor Sensors. <i>ACS Sensors</i> , 2019 , 4, 3308-3317	9.2	24
127	Synthesis, structure and band gap energy of covalently linked cluster-assembled materials. <i>Dalton Transactions</i> , 2012 , 41, 12365-77	4.3	24
126	Directed assembly and separation of self-assembled monolayers via electrochemical processing. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14410-7	3.4	24
125	Detecting DNA and RNA and Differentiating Single-Nucleotide Variations via Field-Effect Transistors. <i>Nano Letters</i> , 2020 , 20, 5982-5990	11.5	24
124	Nanotechnology Education for the Global World: Training the Leaders of Tomorrow. <i>ACS Nano</i> , 2016 , 10, 5595-9	16.7	23

123	Tuning stamp surface energy for soft lithography of polar molecules to fabricate bioactive small-molecule microarrays. <i>Small</i> , 2011 , 7, 1471-9	11	23
122	Insertion of 1,10-decanedithiol in decanethiolate self-assembled monolayers on Au{111}. <i>Nanotechnology</i> , 2007 , 18, 044021	3.4	23
121	Intracellular Photothermal Delivery for Suspension Cells Using Sharp Nanoscale Tips in Microwells. <i>ACS Nano</i> , 2019 , 13, 10835-10844	16.7	22
120	Effect of Tether Conductivity on the Efficiency of Photoisomerization of Azobenzene-Functionalized Molecules on Au{111}. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2388-94	6.4	22
119	Structural Manipulation of Hydrogen-Bonding Networks in Amide-Containing Alkanethiolate Monolayers via Electrochemical Processing. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19744-19751	3.8	22
118	Patterning small-molecule biocapture surfaces: microcontact insertion printing vs. photolithography. <i>Chemical Communications</i> , 2011 , 47, 10641-3	5.8	22
117	A conversation with Dr. Masakazu Aono: leader in atomic-scale control and nanomanipulation. <i>ACS Nano</i> , 2007 , 1, 379-83	16.7	22
116	Engineering motility as a phenotypic response to LuxI/R-dependent quorum sensing in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2008 , 100, 1251-5	4.9	22
115	Controlling and Measuring the Interdependence of Local Properties in Biomembranes. <i>Langmuir</i> , 2003 , 19, 1618-1623	4	22
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