## Mark A Reed

# 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.

19,616 55 139 210 h-index g-index citations papers 6.48 21,121 241 7.7 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
210	CMOS-compatible silicon nanowire field-effect transistors: Where nanotechnology pushes the limits in biosensing <b>2022</b> , 327-362		1
209	Rapid Screen for Anti-viral T-cell Immunity with Nanowire Electrochemical Biosensors <i>Advanced Materials</i> , <b>2022</b> , e2109661	24	1
208	A Fast and Label-Free Potentiometric Method for Direct Detection of Glutamine with Silicon Nanowire Biosensors. <i>Biosensors</i> , <b>2022</b> , 12, 368	5.9	O
207	Programmable and Parallel Trapping of Submicron/Nanoscale Particles Using Acoustic Micro-Pillar Array Chip. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2101334	4.6	1
206	Crosstalk Analysis to GHz Bulk-Acoustic-Wave Array for Addressable Micro/Nanoscale Particle Trapping. <i>Journal of Microelectromechanical Systems</i> , <b>2021</b> , 1-9	2.5	
205	A microfluidic chip with a serpentine channel enabling high-throughput cell separation using surface acoustic waves. <i>Lab on A Chip</i> , <b>2021</b> , 21, 4608-4617	7.2	2
204	Electrostatic gating of ion transport in carbon nanotube porins: A modeling study. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 204704	3.9	1
203	2021,		1
202	Overcoming the sensitivity vs. throughput tradeoff in Coulter counters: A novel side counter design. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 168, 112507	11.8	6
201	Continuous Label-Free Electronic Discrimination of T Cells by Activation State. ACS Nano, 2020, 14, 8646	5 <del>1865</del> 57	10
<b>2</b> 00	A Gd@C single-molecule electret. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 1019-1024	28.7	25
199	Single ascospore detection for the forecasting of stem rot of canola. <i>Lab on A Chip</i> , <b>2020</b> , 20, 3644-3652	7.2	4
198	Trapping of sub-100 nm nanoparticles using gigahertz acoustofluidic tweezers for biosensing applications. <i>Nanoscale</i> , <b>2019</b> , 11, 14625-14634	7.7	19
197	Critical Knowledge Gaps in Mass Transport through Single-Digit Nanopores: A Review and Perspective. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 21309-21326	3.8	121
196	Temperature-dependent thermal conductivity and suppressed Lorenz number in ultrathin gold nanowires. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	8
195	A nanofluidic ion regulation membrane with aligned cellulose nanofibers. <i>Science Advances</i> , <b>2019</b> , 5, each	1 <b>u</b> 42 <sub>3</sub> 38	3 81
194	Enhancing Lithium Insertion with Electrostatic Nanoconfinement in a Lithography Patterned Precision Cell. <i>ACS Nano</i> , <b>2019</b> , 13, 8481-8489	16.7	3

## (2014-2019)

193	Critical temperature in feedback-controlled electromigration of gold nanostructures.  Nanotechnology, <b>2019</b> , 30, 015201	3.4	1	
192	Cellphone-Enabled Microwell-Based Microbead Aggregation Assay for Portable Biomarker Detection. <i>ACS Sensors</i> , <b>2018</b> , 3, 432-440	9.2	12	
191	Sensing the electrical activity of single ion channels with top-down silicon nanoribbons. <i>Nano Futures</i> , <b>2018</b> , 2,	3.6	2	
190	Electromigration in gold nanowires under AC driving. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 193104	3.4	1	
189	Electrical measurement of the linewidth of a quantum well bound state. <i>Superlattices and Microstructures</i> , <b>2017</b> , 103, 121-126	2.8		
188	Smartphone-Enabled Colorimetric Trinitrotoluene Detection Using Amine-Trapped Polydimethylsiloxane Membranes. <i>ACS Applied Materials &amp; Description</i> (2017), 9, 14445-14452	9.5	21	
187	Extended Gate Field-Effect Transistor Biosensors for Point-Of-Care Testing of Uric Acid. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1572, 189-203	1.4		
186	Nanoelectronic Platform for Ultrasensitive Detection of Protein Biomarkers in Serum using DNA Amplification. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11325-11331	7.8	17	
185	Charge Transfer from Carbon Nanotubes to Silicon in Flexible Carbon Nanotube/Silicon Solar Cells. <i>Small</i> , <b>2017</b> , 13, 1702387	11	14	
184	Novel Silicon Doped Tin Oxide-Carbon Microspheres as Anode Material for Lithium Ion Batteries: The Multiple Effects Exerted by Doped Si. <i>Small</i> , <b>2017</b> , 13, 1702614	11	22	
183	Metal-coated microfluidic channels: An approach to eliminate streaming potential effects in nano biosensors. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 87, 447-452	11.8	9	
182	VOC detection using multimode E-nose composed of bulk acoustic wave resonator and silicon nanowire field effect transistor array <b>2016</b> ,		2	
181	Experimental evidence and control of the bulk-mediated intersurface coupling in topological insulator Bi2Te2Se nanoribbons. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	31	
180	Direct Observation of Charge Inversion in Divalent Nanofluidic Devices. <i>Nano Letters</i> , <b>2015</b> , 15, 5046-51	11.5	58	
179	Functionalized Polyelectrolytes Assembling on Nano-BioFETs for Biosensing Applications. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2279-2286	15.6	38	
178	Silicon Nanowire Field-Effect Transistors Versatile Class of Potentiometric Nanobiosensors. <i>IEEE Access</i> , <b>2015</b> , 3, 287-302	3.5	88	
177	Voltage gated ion and molecule transport in engineered nanochannels: theory, fabrication and applications. <i>Nanotechnology</i> , <b>2014</b> , 25, 122001	3.4	61	
176	Limit of detection of field effect transistor biosensors: Effects of surface modification and size dependence. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 084106	3.4	47	

175	Direct, rapid, and label-free detection of enzyme-substrate interactions in physiological buffers using CMOS-compatible nanoribbon sensors. <i>Nano Letters</i> , <b>2014</b> , 14, 5315-22	11.5	48
174	Calibration methods for silicon nanowire BioFETs <b>2014</b> ,		2
173	Highly specific and sensitive non-enzymatic determination of uric acid in serum and urine by extended gate field effect transistor sensors. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 51, 225-31	11.8	56
172	Inelastic electron tunneling spectroscopy of molecular transport junctions. <i>Journal of the Korean Physical Society</i> , <b>2014</b> , 64, 1539-1544	0.6	3
171	Quantitative nanoscale field effect sensors. <i>Journal of Experimental Nanoscience</i> , <b>2014</b> , 9, 41-50	1.9	4
170	Chemical Beam Epitaxy of Gallium Nitride Nanowires. ACS Symposium Series, 2014, 13-39	0.4	
169	Molecular Transistors <b>2014</b> , 194-226		1
168	Performance limitations for nanowire/nanoribbon biosensors. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, <b>2013</b> , 5, 629-45	9.2	34
167	CMOS biosensor devices and applications 2013,		5
166	Record high efficiency single-walled carbon nanotube/silicon p-n junction solar cells. <i>Nano Letters</i> , <b>2013</b> , 13, 95-9	11.5	177
165	Quantitative probing of surface charges at dielectric-electrolyte interfaces. Lab on A Chip, 2013, 13, 143	176	23
164	Improved efficiency of smooth and aligned single walled carbon nanotube/silicon hybrid solar cells. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 879	35.4	81
163	Regenerative electronic biosensors using supramolecular approaches. ACS Nano, 2013, 7, 4014-21	16.7	39
162	Visions for a molecular future. <i>Nature Nanotechnology</i> , <b>2013</b> , 8, 385-9	28.7	65
161	Complementary metal oxide semiconductor-compatible silicon nanowire biofield-effect transistors as affinity biosensors. <i>Nanomedicine</i> , <b>2013</b> , 8, 1839-51	5.6	15
160	Predictive simulations and optimization of nanowire field-effect PSA sensors including screening. <i>Nanotechnology</i> , <b>2013</b> , 24, 225503	3.4	24
159	BIOMOLECULAR FIELD EFFECT SENSORS (bioFETs): FROM QUALITATIVE SENSING TO MULTIPLEXING, CALIBRATION AND QUANTITATIVE DETECTION FROM WHOLE BLOOD. Selected Topics in Electornics and Systems, 2013, 235-251	О	
158	Electric field modulation of the membrane potential in solid-state ion channels. <i>Nano Letters</i> , <b>2012</b> , 12, 6441-7	11.5	36

157	2012,		1
156	Tunable aqueous virtual micropore. <i>Small</i> , <b>2012</b> , 8, 907-12	11	6
155	Mapping of near field light and fabrication of complex nanopatterns by diffraction lithography. <i>Nanotechnology</i> , <b>2012</b> , 23, 045301	3.4	5
154	Quantification of the affinities and kinetics of protein interactions using silicon nanowire biosensors. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 401-7	28.7	273
153	BIOMOLECULAR FIELD EFFECT SENSORS (BIOFETS): FROM QUALITATIVE SENSING TO MULTIPLEXING, CALIBRATION AND QUANTITATIVE DETECTION FROM WHOLE BLOOD. International Journal of High Speed Electronics and Systems, <b>2012</b> , 21, 1250004	0.5	
152	Determination of molecular configuration by debye length modulation. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13886-9	16.4	77
151	Optimal signal-to-noise ratio for silicon nanowire biochemical sensors. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 264107-2641073	3.4	91
150	. IEEE Nanotechnology Magazine, <b>2011</b> , 10, 35-43	2.6	16
149	Multiplexed SOI BioFETs. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 28, 239-42	11.8	28
148	Single molecule electronic devices. <i>Advanced Materials</i> , <b>2011</b> , 23, 1583-608	24	380
147	Minority carrier lifetime and surface effects in VLS-grown axial p-n junction silicon nanowires. <i>Advanced Materials</i> , <b>2011</b> , 23, 4306-11	24	27
146	Single-Molecule Devices: Single Molecule Electronic Devices (Adv. Mater. 14/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, 1576-1576	24	3
145	Field-effect reconfigurable nanofluidic ionic diodes. <i>Nature Communications</i> , <b>2011</b> , 2, 506	17.4	168
144	Non-vanishing ponderomotive AC electrophoretic effect for particle trapping. <i>Nanotechnology</i> , <b>2011</b> , 22, 245103	3.4	6
143	Intrinsic charge transport of conjugated organic molecules in electromigrated nanogap junctions. Journal of Applied Physics, <b>2011</b> , 109, 102419	2.5	20
142	Size-dependent persistent photocurrent and surface band bending in m-axial GaN nanowires. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	46
141	Paul trapping of charged particles in aqueous solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 9326-30	11.5	40
140	Label-free biomarker detection from whole blood. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 138-42	28.7	433

139	Label-free biomarker detection from whole blood <b>2010</b> ,		1
138	A long DNA segment in a linear nanoscale Paul trap. <i>Nanotechnology</i> , <b>2010</b> , 21, 015103	3.4	14
137	\$hbox{1}/f\$ Noise of Silicon Nanowire BioFETs. IEEE Electron Device Letters, 2010, 31, 615-617	4.4	50
136	Temperature dependence of 1flnoise mechanisms in silicon nanowire biochemical field effect transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 243501	3.4	22
135	Coherent Tunneling Transport in Molecular Junctions [] Journal of Physical Chemistry C, 2010, 114, 20431	- <b>3</b> 0843!	5 58
134	Microfluidic probe: a new tool for integrating microfluidic environments and electronic wafer-probing. <i>Lab on A Chip</i> , <b>2010</b> , 10, 123-7	7.2	10
133	Introduction to the Special Section on Electronic and Ionic Interfaces to Biomolecules and Cells. <i>IEEE Nanotechnology Magazine</i> , <b>2010</b> , 9, 268-268	2.6	
132	A nanoelectronic enzyme-linked immunosorbent assay for detection of proteins in physiological solutions. <i>Small</i> , <b>2010</b> , 6, 232-8	11	47
131	Authentic Science Research and the Utilization of Nanoscience in the Non-Traditional Classroom Setting. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1233, 1		
130	Spatiotemporal control over molecular delivery and cellular encapsulation from electropolymerized micro- and nanopatterned surfaces. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2888-	2 <del>85</del> 5	6
129	Observation of molecular orbital gating. <i>Nature</i> , <b>2009</b> , 462, 1039-43	50.4	617
128	. IEEE Transactions on Electron Devices, <b>2008</b> , 55, 2813-2819	2.9	6
127	Guest Editorial Special Issue on Nanowire Transistors: Modeling, Device Design, and Technology. <i>IEEE Nanotechnology Magazine</i> , <b>2008</b> , 7, 643-650	2.6	2
126	Label-free electronic detection of the antigen-specific T-cell immune response. <i>Nano Letters</i> , <b>2008</b> , 8, 3310-4	11.5	66
125	Transport spectroscopy of single Pt impurities in silicon using Schottky barrier MOSFETs. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 374125	1.8	5
124	Inelastic electron tunneling spectroscopy. <i>Materials Today</i> , <b>2008</b> , 11, 46-50	21.8	69
123	Semiconducting Nanowire Field-Effect Transistor Biomolecular Sensors. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 3119-3130	2.9	115
122	Electrically excited infrared emission from InN nanowire transistors. <i>Nano Letters</i> , <b>2007</b> , 7, 2276-80	11.5	35

### (2005-2007)

121	Importance of the Debye screening length on nanowire field effect transistor sensors. <i>Nano Letters</i> , <b>2007</b> , 7, 3405-9	11.5	593
120	Liquid fuel microcombustor using microfabricated multiplexed electrospray sources. <i>Proceedings of the Combustion Institute</i> , <b>2007</b> , 31, 2239-2246	5.9	52
119	Label-free immunodetection with CMOS-compatible semiconducting nanowires. <i>Nature</i> , <b>2007</b> , 445, 519	9-32.4	1105
118	Observation of the linear stark effect in a single acceptor in Si. <i>Physical Review Letters</i> , <b>2007</b> , 98, 096809	57.4	43
117	Effect of local strain on single acceptors in Si. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	16
116	Comparison of laser-ablation and hot-wall chemical vapour deposition techniques for nanowire fabrication. <i>Nanotechnology</i> , <b>2006</b> , 17, S246-S252	3.4	7
115	Methods for fabricating Ohmic contacts to nanowires and nanotubes. <i>Journal of Vacuum Science</i> & <i>Technology B</i> , <b>2006</b> , 24, 231		30
114	The effect of Mg doping on GaN nanowires. <i>Nanotechnology</i> , <b>2006</b> , 17, 5735-5739	3.4	29
113	Specific contact resistivity of nanowire devices. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 053106	3.4	41
112	Observation of plasmon propagation, redirection, and fan-out in silver nanowires. <i>Nano Letters</i> , <b>2006</b> , 6, 1822-6	11.5	330
111	Microfluidic system for planar patch clamp electrode arrays. <i>Nano Letters</i> , <b>2006</b> , 6, 815-9	11.5	68
110	Increase of electrospray throughput using multiplexed microfabricated sources for the scalable generation of monodisperse droplets. <i>Journal of Aerosol Science</i> , <b>2006</b> , 37, 696-714	4.3	202
109	Electron mobility study of hot-wall CVD GaN and InN nanowires. <i>Brazilian Journal of Physics</i> , <b>2006</b> , 36, 824-827	1.2	7
108	Intrinsic Electronic Conduction Mechanisms in Self-Assembled Monolayers <b>2006</b> , 275-300		4
107	Electropolymerization on microelectrodes: functionalization technique for selective protein and DNA conjugation. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 6340-6	7.8	26
106	Indium oxide nanostructures. Applied Physics A: Materials Science and Processing, 2006, 85, 233-240	2.6	49
105	Electronic Transport in Molecular Self-Assembled Monolayer Devices. <i>Proceedings of the IEEE</i> , <b>2005</b> , 93, 1815-1824	14.3	23
104	Cross-platform characterization of electron tunneling in molecular self-assembled monolayers. <i>Current Applied Physics</i> , <b>2005</b> , 5, 213-217	2.6	6

103	Intrinsic Electronic Transport through Alkanedithiol Self-Assembled Monolayer. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, 523-529	1.4	14
102	Electron tunnelling in self-assembled monolayers. <i>Reports on Progress in Physics</i> , <b>2005</b> , 68, 523-544	14.4	115
101	Electronic properties of InN nanowires. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 253103	3.4	44
100	Electrical characterization of single GaN nanowires. <i>Nanotechnology</i> , <b>2005</b> , 16, 2941-2953	3.4	96
99	Comment on Habrication of a Molecular Self-Assembled Monolayer Diode Using Nanoimprint Lithography [Nano Letters, 2004, 4, 533-533]	11.5	1
98	Elastic and Inelastic Electron Tunneling in Alkane Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 18398-18407	3.4	105
97	Comparison of Electronic Transport Characterization Methods for Alkanethiol Self-Assembled Monolayers [] <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 8742-8750	3.4	115
96	Inelastic Electron Tunneling Spectroscopy of an Alkanedithiol Self-Assembled Monolayer. <i>Nano Letters</i> , <b>2004</b> , 4, 643-646	11.5	335
95	Mechanism of electron conduction in self-assembled alkanethiol monolayer devices. <i>Annals of the New York Academy of Sciences</i> , <b>2003</b> , 1006, 21-35	6.5	57
94	Electrical characterization of metal-molecule-silicon junctions. <i>Annals of the New York Academy of Sciences</i> , <b>2003</b> , 1006, 36-47	6.5	11
93	Synthesis and testing of new end-functionalized oligomers for molecular electronics. <i>Tetrahedron</i> , <b>2003</b> , 59, 8555-8570	2.4	54
92	Electrical characterization of metalfholeculeBilicon junctions. <i>Superlattices and Microstructures</i> , <b>2003</b> , 33, 217-226	2.8	31
91	Electronic memory effects in self-assembled monolayer systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 16, 17-23	3	27
90	Electronic transport in self-assembled alkanethiol monolayers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 19, 117-125	3	36
89	Mechanism of electron conduction in self-assembled alkanethiol monolayer devices. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	504
88	Current rectification in a single GaN nanowire with a well-defined pl junction. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 1578-1580	3.4	84
87	Molecular Electronics <b>2003</b> , 123-139		3
86	Molecular wires, switches, and memories. <i>Annals of the New York Academy of Sciences</i> , <b>2002</b> , 960, 69-99	6.5	57

#### (1999-2002)

85	Micromolded PDMS planar electrode allows patch clamp electrical recordings from cells. <i>Biosensors and Bioelectronics</i> , <b>2002</b> , 17, 597-604	11.8	164
84	Electronic transport of molecular systems. <i>Chemical Physics</i> , <b>2002</b> , 281, 127-145	2.3	158
83	Suppression of leakage current in Schottky barrier metal®xideBemiconductor field-effect transistors. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 757-759	2.5	46
82	Electron transport measurements of Schottky barrier inhomogeneities. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1761-1763	3.4	53
81	Synthesis and preliminary testing of molecular wires and devices. <i>Chemistry - A European Journal</i> , <b>2001</b> , 7, 5118-34	4.8	219
80	Growth and characterization of aligned carbon nanotubes from patterned nickel nanodots and uniform thin films. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 3246-3253	2.5	58
79	Molecular random access memory cell. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3735-3737	3.4	499
78	Prospects for Molecular-Scale Electronics. MRS Bulletin, <b>2001</b> , 26, 113-120	3.2	27
77	Electrochemical Testing of Potential Molecular Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 636, 741		
76	Subthreshold and scaling of PtSi Schottky barrier MOSFETs. <i>Superlattices and Microstructures</i> , <b>2000</b> , 28, 501-506	2.8	23
75	Analysis of yeast protein kinases using protein chips. <i>Nature Genetics</i> , <b>2000</b> , 26, 283-9	36.3	734
74	Computing with molecules. <i>Scientific American</i> , <b>2000</b> , 282, 86-93	0.5	206
73	Sequential tunneling and spin degeneracy of zero-dimensional states. <i>Physical Review B</i> , <b>2000</b> , 62, 8240	- <b>§</b> 2348	10
72	Room-temperature negative differential resistance in nanoscale molecular junctions. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1224-1226	3.4	441
71	Electrochemical Testing of Potential Molecular Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 660, 1		
70	Large arrays of well-aligned carbon nanotubes <b>1999</b> ,		1
69	Placement of conjugated oligomers in an alkanethiol matrix by scanned probe microscope lithography. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 624-626	3.4	57

67	Growth of a single freestanding multiwall carbon nanotube on each nanonickel dot. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1086-1088	3.4	346
66	Large On-Off Ratios and Negative Differential Resistance in a Molecular Electronic Device. <i>Science</i> , <b>1999</b> , 286, 1550-1552	33.3	2173
65	Molecular Scale Electronics. Critical Nanolithography Issues of Synthesis and Addressing. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 584, 45		1
64	The Electrical Measurement of Molecular Junctions. <i>Annals of the New York Academy of Sciences</i> , <b>1998</b> , 852, 133-144	6.5	44
63	Recent Advances in Molecular Scale Electronics. <i>Annals of the New York Academy of Sciences</i> , <b>1998</b> , 852, 197-204	6.5	28
62	Molecular scale electronics: syntheses and testing. <i>Nanotechnology</i> , <b>1998</b> , 9, 246-250	3.4	34
61	Nanoscale metal/self-assembled monolayer/metal heterostructures. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 611-613	3.4	468
60	An RTD/transistor switching block and its possible application in binary and ternary adders. <i>IEEE Transactions on Electron Devices</i> , <b>1997</b> , 44, 2149-2153	2.9	20
59	Conductance of a Molecular Junction. <i>Science</i> , <b>1997</b> , 278, 252-254	33.3	2958
58	Conductance Quantization in Fully Integrated Break Junctions at Room Temperature <b>1997</b> , 263-274		
57	Atomic probes: a search for conduction through a single molecule. <i>Nanotechnology</i> , <b>1996</b> , 7, 409-411	3.4	45
56	Atomic force microscopy study of electron beam written contamination structures. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1996</b> , 14, 54		37
55	There Is Plenty of Room Between Two Atom Contacts. <i>Science</i> , <b>1996</b> , 272, 1901-1902	33.3	5
54	Spin splitting of single 0D impurity states in semiconductor heterostructure Quantum Wells. <i>Physical Review Letters</i> , <b>1996</b> , 76, 1328-1331	7.4	54
53	Resonant tunneling in double-quantum-well triple-barrier heterostructures. <i>Physical Review B</i> , <b>1996</b> , 54, 4857-4862	3.3	21
52	Electron-spectroscopic study of vertical In1-xGaxAs quantum dots. <i>Physical Review B</i> , <b>1996</b> , 53, 15727-	1 <i>53</i> 7. <b>3</b> 7	13
51	Quantization effects in the conductance of metallic contacts at room temperature. <i>Physical Review B</i> , <b>1996</b> , 53, 1022-1025	3.3	115
50	Microfabrication of a mechanically controllable break junction in silicon. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 1160-1162	3.4	119

#### (1990-1995)

49	Controlled IIIIV semiconductor cluster nucleation and epitaxial growth via electron-beam lithography. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 1343-1345	3.4	3
48	Spectroscopic study of intraminiband and interminiband tunneling in finite superlattices. <i>Physical Review B</i> , <b>1995</b> , 51, 10701-10708	3.3	5
47	Low-dimensional resonant tunnelling and Coulomb blockade: a comparison of fabricated versus impurity confinement. <i>Semiconductor Science and Technology</i> , <b>1994</b> , 9, 1919-1924	1.8	12
46	High magnetic field tunneling transport in a double quantum well-triple barrier resonant tunneling diode. <i>Physica B: Condensed Matter</i> , <b>1994</b> , 201, 374-379	2.8	7
45	Prospects for Semiconductor Quantum Devices. Advances in Chemistry Series, 1994, 15-42		3
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