

Juan Jose Saenz

List of Publications by Year in descending order

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213
papers

9,290
citations

38660

50
h-index

43802

91
g-index

214
all docs

214
docs citations

214
times ranked

6192
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges on optical printing of colloidal nanoparticles. Journal of Chemical Physics, 2022, 156, 034201.	1.2	12
2	Active Motion Induced by Random Electromagnetic Fields. ACS Photonics, 2022, 9, 1008-1014.	3.2	1
3	A Chirality-Based Quantum Leap. ACS Nano, 2022, 16, 4989-5035.	7.3	74
4	Field-Mediated Chirality Information Transfer in Molecule-Nanoparticle Hybrids. Journal of Physical Chemistry C, 2020, 124, 1560-1565.	1.5	15
5	Tutorial: Computing Topological Invariants in 2D Photonic Crystals. Advanced Quantum Technologies, 2020, 3, 1900117.	1.8	63
6	Extraordinary Multipole Modes and Ultra-Enhanced Optical Lateral Force by Chirality. Physical Review Letters, 2020, 125, 043901.	2.9	35
7	Kerker Conditions upon Lossless, Absorption, and Optical Gain Regimes. Physical Review Letters, 2020, 125, 073205.	2.9	37
8	Surface-Enhanced Circular Dichroism Spectroscopy on Periodic Dual Nanostructures. ACS Photonics, 2020, 7, 2978-2986.	3.2	29
9	Coupled electric and magnetic dipole formulation for planar arrays of particles: Resonances and bound states in the continuum for all-dielectric metasurfaces. Physical Review B, 2020, 102, .	1.1	31
10	Optimal backward light scattering by dipolar particles. Physical Review Research, 2020, 2, .	1.3	23
11	Unveiling dipolar spectral regimes of large dielectric Mie spheres from helicity conservation. Physical Review Research, 2020, 2, .	1.3	13
12	Size-selective optical printing of silicon nanoparticles through their dipolar magnetic resonance. , 2020, , .		0
13	Role of the absorption on the spin-orbit interactions of light with Si nano-particles. Journal of Applied Physics, 2019, 126, 033104.	1.1	10
14	Brewster quasi bound states in the continuum in all-dielectric metasurfaces from single magnetic-dipole resonance meta-atoms. Scientific Reports, 2019, 9, 16048.	1.6	22
15	Light Induced Inverse-Square Law Interactions between Nanoparticles: "Mock Gravity" at the Nanoscale. Physical Review Letters, 2019, 123, 143201.	2.9	7
16	Enhanced spin-orbit optical mirages from dual nanospheres. Physical Review A, 2019, 99, .	1.0	21
17	Narrow Fano resonances in Si nanocylinder metasurfaces: Refractive index sensing. Journal of Applied Physics, 2019, 125, .	1.1	17
18	Size-Selective Optical Printing of Silicon Nanoparticles through Their Dipolar Magnetic Resonance. ACS Photonics, 2019, 6, 815-822.	3.2	40

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19	Optofluidic control of the dispersion of nanoscale dumbbells. <i>Physical Review E</i> , 2019, 99, 022603.	0.8	5
20	Sectoral multipole focused beams. <i>Optics Express</i> , 2019, 27, 16384.	1.7	13
21	Asymmetry and spin-orbit coupling of light scattered from subwavelength particles. <i>Optics Letters</i> , 2019, 44, 1762.	1.7	18
22	Size-Selective Optical Printing of Silicon Nanoparticles through Their Dipolar Magnetic Resonance. , 2019, , .		0
23	Generalized Brewster effect in high-refractive-index nanorod-based metasurfaces. <i>Optics Express</i> , 2018, 26, 31523.	1.7	35
24	Emergence of collective dynamics of gold nanoparticles in an optical vortex lattice. <i>Physical Review E</i> , 2018, 98, .	0.8	13
25	Unequivocal signatures of the crossover to Anderson localization in realistic models of disordered quasi-one-dimensional materials. <i>Physical Review B</i> , 2018, 98, .	1.1	23
26	Living Nanospear for Near-Field Optical Probing. <i>ACS Nano</i> , 2018, 12, 10703-10711.	7.3	54
27	Spin control of macroscopic objects. <i>Nature Photonics</i> , 2018, 12, 444-445.	15.6	2
28	Analysis of the dynamics of electric dipoles in fluctuating electromagnetic fields. , 2018, , .		1
29	Straightening light sheets. <i>Nature Photonics</i> , 2017, 11, 686-688.	15.6	1
30	Band gap formation and Anderson localization in disordered photonic materials with structural correlations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9570-9574.	3.3	109
31	Negative dissipation gradients in hysteretic materials. <i>Nanoscale</i> , 2016, 8, 16989-16994.	2.8	4
32	Magneto-Optical Activity in High Index Dielectric Nanoantennas. <i>Scientific Reports</i> , 2016, 6, 30803.	1.6	39
33	Control of diffusion of nanoparticles in an optical vortex lattice. <i>Physical Review E</i> , 2016, 93, 062130.	0.8	4
34	Fluctuations of the electromagnetic local density of states as a probe for structural phase switching. <i>Physical Review A</i> , 2016, 94, .	1.0	8
35	Arrested Dimerâ€™s Diffusion by Self-Induced Back-Action Optical Forces. <i>ACS Photonics</i> , 2016, 3, 1286-1293.	3.2	7
36	Self-diffusion and structural properties of confined fluids in dynamic coexistence. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 135101.	0.7	7

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37	Dielectric spheres with maximum forward scattering and zero backscattering: a search for their material composition. Journal of Optics (United Kingdom), 2015, 17, 105612.	1.0	22
38	Localized magnetic plasmons in all-dielectric Physical Review B, 2015, 91, .	1.0	14
39	Near-Field Effects in Mesoscopic Light Transport. Physical Review Letters, 2015, 115, 203903.	2.9	55
40	Speckle fluctuations resolve the interdistance between incoherent point sources in complex media. Physical Review A, 2015, 91, .	1.0	14
41	Isotropically Polarized Speckle Patterns. Physical Review Letters, 2015, 114, 113902.	2.9	35
42	Controlling dispersion forces between small particles with artificially created random light fields. Nature Communications, 2015, 6, 7460.	5.8	38
43	Local control of the excitation of surface plasmon polaritons by near-field magneto-optical Kerr effect. Physical Review B, 2014, 90, .	1.1	3
44	Laser streaking of free electrons at 25ÅkeV. Nature Photonics, 2014, 8, 52-57.	15.6	121
45	Probing two-dimensional Anderson localization without statistics. Physical Review A, 2014, 90, .	1.0	12
46	Magneto-optical Kerr effect in resonant subwavelength nanowire gratings. New Journal of Physics, 2014, 16, 015007.	1.2	27
47	Effect of long-range spatial correlations on the lifetime statistics of an emitter in a two-dimensional disordered lattice. Physical Review A, 2014, 89, .	1.0	6
48	Contribution of evanescent waves to the effective medium of disordered waveguides. Europhysics Letters, 2014, 108, 17006.	0.7	4
49	Demonstration of Zero Optical Backscattering from Single Nanoparticles. Nano Letters, 2013, 13, 1806-1809.	4.5	432
50	Low-Loss Electric and Magnetic Field-Enhanced Spectroscopy with Subwavelength Silicon Dimers. Journal of Physical Chemistry C, 2013, 117, 13573-13584.	1.5	347
51	Non-conservative scattering forces on small particles. , 2013, , .		0
52	Broadband telecom transparency of semiconductor-coated metal nanowires: more transparent than glass. Optics Express, 2013, 21, 22076.	1.7	7
53	Sensing with magnetic dipolar resonances in semiconductor nanospheres. Optics Express, 2013, 21, 23007.	1.7	67
54	Dielectric spheres as scatterers and/or antennas with anomalous radiation properties: Scattering and optical forces. , 2013, , .		0

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55	MarquÃ©s and SÃ¡enz Reply: Physical Review Letters, 2013, 111, 059302.	2.9	18
56	Extraordinary magnetoplasmonic effect in SPP-MOKE configuration. , 2013, , .		0
57	Scattering forces on magneto-dielectric particles and the electromagnetic momentum density. Advanced Electromagnetics, 2013, 2, 26.	0.7	0
58	Light spin forces in optical traps: comment on "Trapping metallic Rayleigh particles with radial polarization" Optics Express, 2012, 20, 2832.	1.7	21
59	Dielectric antennas - a suitable platform for controlling magnetic dipolar emission: errata. Optics Express, 2012, 20, 18609.	1.7	15
60	Scattering forces and electromagnetic momentum density in crossed circularly polarized standing waves: erratum. Optics Letters, 2012, 37, 4470.	1.7	3
61	Scattering forces and electromagnetic momentum density in crossed circularly polarized standing waves. Optics Letters, 2012, 37, 2787.	1.7	15
62	Three-dimensional tomography of single charge inside dielectric materials using electrostatic force microscopy. Materials Research Society Symposia Proceedings, 2012, 1421, 1.	0.1	2
63	Electric and magnetic optical response of dielectric nanospheres: Optical forces and scattering anisotropy. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 345-352.	1.0	18
64	Light scattering by a magneto-optical nanoparticle in front of a flat surface: Perturbative approach. Physical Review B, 2012, 85, .	1.1	6
65	Fast and non-invasive conductivity determination by the dielectric response of reduced graphene oxide: an electrostatic force microscopy study. Nanoscale, 2012, 4, 7231.	2.8	10
66	Dielectric antennas - a suitable platform for controlling magnetic dipolar emission. Optics Express, 2012, 20, 13636.	1.7	169
67	Magnetic and electric coherence in forward- and back-scattered electromagnetic waves by a single dielectric subwavelength sphere. Nature Communications, 2012, 3, 1171.	5.8	466
68	Polarizability reveals identity. Nature Materials, 2012, 11, 748-749.	13.3	2
69	Dissipation by adhesion hysteresis in dynamic force microscopy. Physical Review B, 2012, 85, .	1.1	5
70	Enhanced dielectric constant resolution of thin insulating films by electrostatic force microscopy. Journal of Physics Condensed Matter, 2012, 24, 155303.	0.7	10
71	Negative scattering asymmetry parameter for dipolar particles: Unusual reduction of the transport mean free path and radiation pressure. Physical Review A, 2012, 85, .	1.0	37
72	Suppressed backscatter from electric and magnetic dipole interference in sub-micron dielectric spheres. , 2012, , .		0

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73	Plasmonic Nanoparticle Chain in a Light Field: A Resonant Optical Sail. Nano Letters, 2011, 11, 4597-4600.	4.5	13
74	Contrast inversion in electrostatic force microscopy imaging of trapped charges: tip-sample distance and dielectric constant dependence. Nanotechnology, 2011, 22, 345702.	1.3	10
75	Angle-suppressed scattering and optical forces on submicrometer dielectric particles. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 54.	0.8	189
76	Finite photonic crystal waveguide with an embedded cavity: optical conductance and vortices. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 756.	0.9	2
77	Strong magnetic response of submicron Silicon particles in the infrared. Optics Express, 2011, 19, 4815.	1.7	626
78	Light control of silver nanoparticle's diffusion. Optics Express, 2011, 19, 11471.	1.7	19
79	Laser tractor beams. Nature Photonics, 2011, 5, 514-515.	15.6	96
80	Scattering forces in the focal volume of high numerical aperture microscope objectives. Optics Communications, 2011, 284, 2430-2436.	1.0	29
81	On the use of electrostatic force microscopy as a quantitative subsurface characterization technique: A numerical study. Applied Physics Letters, 2011, 99, 023101.	1.5	16
82	Nonconservative electric and magnetic optical forces on submicron dielectric particles. Physical Review A, 2011, 83, .	1.0	29
83	Electric and magnetic dipolar response of germanium nanospheres: interference effects, scattering anisotropy, and optical forces. Journal of Nanophotonics, 2011, 5, 053512.	0.4	179
84	Numerical study of the lateral resolution in electrostatic force microscopy for dielectric samples. Nanotechnology, 2011, 22, 285705.	1.3	18
85	Electric and magnetic dipolar response of dielectric nanospheres: Scattering anisotropy and optical forces. , 2011, , .		1
86	Nanogeometry Matters: Unexpected Decrease of Capillary Adhesion Forces with Increasing Relative Humidity. Small, 2010, 6, 2725-2730.	5.2	45
87	Preface: phys. stat. sol. (c) 7/11-12. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2593-2595.	0.8	0
88	Statistical Properties of the Conductance of Disordered Wires: From atomic-scale contacts to macroscopically long nanowires. , 2010, , .		1
89	Statistical scattering of waves in disordered waveguides: The limiting macroscopic statistics in the ballistic regime. , 2010, , .		0
90	Radiative corrections to the polarizability tensor of an electrically small anisotropic dielectric particle. Optics Express, 2010, 18, 3556.	1.7	122

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91	Optical forces on small magnetodielectric particle. <i>Optics Express</i> , 2010, 18, 11428.	1.7	287
92	Optical forces from an evanescent wave on a magnetodielectric small particle. <i>Optics Letters</i> , 2010, 35, 4078.	1.7	32
93	Deterministic Ratchet from Stationary Light Fields. <i>Physical Review Letters</i> , 2009, 103, 130601.	2.9	20
94	Density of States and Extinction Mean Free Path of Waves in Random Media: Dispersion Relations and Sum Rules. <i>Physical Review Letters</i> , 2009, 102, 093902.	2.9	22
95	Phase contrast in Simultaneous Topography and Recognition imaging. <i>Ultramicroscopy</i> , 2009, 109, 1189-1192.	0.8	2
96	Preface: Phys. Status Solidi C 6/10. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2093-2096.	0.8	0
97	Scattering Forces from the Curl of the Spin Angular Momentum of a Light Field. <i>Physical Review Letters</i> , 2009, 102, 113602.	2.9	279
98	Giant Enhanced Diffusion of Gold Nanoparticles in Optical Vortex Fields. <i>Nano Letters</i> , 2009, 9, 3527-3531.	4.5	54
99	Trends in Nanotechnology (TNT2007). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1245-1248.	0.8	0
100	Adhesion hysteresis in dynamic atomic force microscopy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 138-140.	1.2	11
101	Generalized scattering matrix method for electrostatic calculations of nanoscale systems. <i>Physical Review B</i> , 2008, 77, .	1.1	5
102	Transport of light in amorphous photonic materials. , 2007, , .		0
103	Optical conductance of waveguides built into finite photonic crystals. <i>Applied Physics Letters</i> , 2007, 91, 061107.	1.5	8
104	Single molecule fluorescence decay rate fluctuations in complex media. , 2007, , .		0
105	Adatom-Adatom Interaction Mediated by an Underlying Surface Phase Transition. <i>Physical Review Letters</i> , 2007, 98, 156102.	2.9	6
106	Fluorescence decay rate statistics of a single molecule in a disordered cluster of nanoparticles. <i>Physical Review A</i> , 2007, 76, .	1.0	35
107	Optical resonances in one-dimensional dielectric nanorod arrays: field-induced fluorescence enhancement. <i>Optics Letters</i> , 2007, 32, 2762.	1.7	37
108	Energy Dissipation due to Capillary Interactions: Hydrophobicity Maps in Force Microscopy. <i>Physical Review Letters</i> , 2007, 98, .	2.9	80

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109	A method for calculating capacitances and electrostatic forces in atomic force microscopy. Journal of Applied Physics, 2007, 101, 024310.	1.1	79
110	Transport of light in amorphous photonic materials. Applied Physics Letters, 2007, 91, .	1.5	56
111	Fluctuations and correlations in wave transport through complex media. Physica A: Statistical Mechanics and Its Applications, 2007, 386, 625-632.	1.2	11
112	Transport of waves in disordered waveguides: A potential model. Physica A: Statistical Mechanics and Its Applications, 2007, 386, 603-610.	1.2	2
113	Nanotechnology applications: a driving force for R&D investment. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1611-1622.	0.8	3
114	Preface: phys. stat. sol. (a) 204/6. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1607-1610.	0.8	1
115	Nanoscience and nanotechnology " driving research and applications. Physica Status Solidi - Rapid Research Letters, 2007, 1, A68.	1.2	2
116	Statistical scattering of waves in disordered waveguides: From microscopic potentials to limiting macroscopic statistics. Physical Review E, 2007, 75, 031113.	0.8	32
117	Conductance Oscillations in Squashed Carbon Nanotubes. Physical Review Letters, 2006, 96, 076803.	2.9	34
118	Spatial wave intensity correlations in quasi-one-dimensional wires. Physical Review E, 2006, 74, 045603.	0.8	8
119	Site and lattice resonances in metallic hole arrays. Optics Express, 2006, 14, 7.	1.7	83
120	Extraordinary optical reflection from sub-wavelength cylinder arrays. Optics Express, 2006, 14, 3730.	1.7	98
121	Editorial: Trends in Nanotechnology (TNT2005). Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1045-1046.	0.8	0
122	Statistical scattering of waves in disordered waveguides: Universal properties. Physica A: Statistical Mechanics and Its Applications, 2006, 372, 203-209.	1.2	4
123	Tuning the optical response of nanocylinder arrays: An analytical study. Physical Review B, 2006, 74, .	1.1	61
124	Quantitative theory for the imaging of conducting objects in electrostatic force microscopy. Applied Physics Letters, 2006, 89, 173122.	1.5	28
125	Extraordinary optical reflection and resonant absorption from sub-wavelength cylinder arrays. , 2006, , .		0
126	Photonic properties of strongly correlated colloidal liquids. , 2005, 5840, 456.		1

#	ARTICLE	IF	CITATIONS
127	Strong optical interactions between particles in a waveguide (Invited Paper). , 2005, , .		0
128	Conductance quantization in nanoscale wires with surface disorder. , 2005, , .		0
129	A Monte Carlo approach to determine conductance distributions in quasi-one-dimensional disordered wires. Microelectronics Journal, 2005, 36, 893-899.	1.1	3
130	Statistical properties of wave transport through surface-disordered waveguides. Waves in Random and Complex Media, 2005, 15, 229-268.	1.6	14
131	Light transport through Photonic Liquids. AIP Conference Proceedings, 2005, , .	0.3	0
132	Transmittances Distributions at the Diffusive-Localized Crossover in Disordered Wave-guides with Absorption. AIP Conference Proceedings, 2005, , .	0.3	0
133	Spatial and angular intensity correlations of waves in disordered media. AIP Conference Proceedings, 2005, , .	0.3	0
134	Full transmission through perfect-conductor subwavelength hole arrays. Physical Review E, 2005, 72, 016608.	0.8	134
135	Sensing Dipole Fields at Atomic Steps with Combined Scanning Tunneling and Force Microscopy. Physical Review Letters, 2005, 95, 136802.	2.9	48
136	Effective tip radius in electrostatic force microscopy. Applied Physics Letters, 2005, 86, 123101.	1.5	64
137	Electromagnetic Surface Modes in Structured Perfect-Conductor Surfaces. Physical Review Letters, 2005, 95, 233901.	2.9	205
138	Compact Model of the Nanoscale Gate-All-Around MOSFET. , 2005, , 321-326.		1
139	Cantilever effects on electrostatic force gradient microscopy. Applied Physics Letters, 2004, 85, 2610-2612.	1.5	67
140	Unusually Strong Optical Interactions between Particles in Quasi-One-Dimensional Geometries. Physical Review Letters, 2004, 93, 243602.	2.9	43
141	Analog performance of the nanoscale double-gate metal-oxide-semiconductor field-effect-transistor near the ultimate scaling limits. Journal of Applied Physics, 2004, 96, 5271-5276.	1.1	35
142	Modeling of Nanoscale Gate-All-Around MOSFETs. IEEE Electron Device Letters, 2004, 25, 314-316.	2.2	136
143	Improved Generalized Scattering Matrix Method: Conduction through Ballistic Nanowires. Journal of the Physical Society of Japan, 2004, 73, 2182-2193.	0.7	24
144	Photonic Properties of Strongly Correlated Colloidal Liquids. Physical Review Letters, 2004, 93, 073903.	2.9	110

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145	Trends in Nanotechnology. Nanotechnology, 2004, 15, .	1.3	1
146	Unified compact model for the ballistic quantum wire and quantum well metal-oxide-semiconductor field-effect-transistor. Journal of Applied Physics, 2003, 94, 1061-1068.	1.1	77
147	Field-Induced Formation of Nanometer-Sized Water Bridges. Physical Review Letters, 2003, 91, 056101.	2.9	115
148	Quantum Conductance in Semimetallic Bismuth Nanocontacts. Physical Review Letters, 2002, 88, 246801.	2.9	29
149	Finite-Size Effects on Intensity Correlations in Random Media. Physical Review Letters, 2002, 88, 143901.	2.9	28
150	Conductance Distributions in Quasi-One-Dimensional Disordered Wires. Physical Review Letters, 2002, 89, 246403.	2.9	47
151	Universal Conductance Distributions in the Crossover between Diffusive and Localization Regimes. Physical Review Letters, 2001, 87, 116603.	2.9	66
152	Electrostatic forces between sharp tips and metallic and dielectric samples. Applied Physics Letters, 2001, 79, 4048-4050.	1.5	81
153	Electron correlation in the Si(1 0 0) surface. Surface Science, 2001, 482-485, 458-463.	0.8	15
154	Tip-shape effects on electrostatic force microscopy resolution. Nanotechnology, 2001, 12, 496-499.	1.3	53
155	Resonant Radiation Pressure on Neutral Particles in a Waveguide. Physical Review Letters, 2001, 86, 4275-4277.	2.9	62
156	Nonlinear effects in conductance histograms of atomic-scale metallic contacts. Physical Review B, 2000, 62, 11139-11145.	1.1	10
157	Spatial Field Distributions in the Transition from Ballistic to Diffusive Transport in Randomly Corrugated Waveguides. Physical Review Letters, 2000, 84, 3578-3581.	2.9	36
158	Finite-size effects in the spatial distribution of the intensity reflected from disordered media. Physical Review B, 2000, 62, 9386-9389.	1.1	6
159	Theory of electrostatic probe microscopy: A simple perturbative approach. Applied Physics Letters, 2000, 76, 2955-2957.	1.5	56
160	Scattering Theory of Bardeen's Formalism for Tunneling: New Approach to Near-Field Microscopy. Physical Review Letters, 2000, 84, 5156-5159.	2.9	30
161	Field emission interferometry with the scanning tunneling microscope. Surface Science, 1999, 426, L420-L425.	0.8	20
162	Conductance histograms and conducting channels in atomic-scale metallic contacts. Surface Science, 1999, 440, L887-L890.	0.8	15

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163	Differential conductance in atomic-scale metallic contacts. Ultramicroscopy, 1998, 73, 199-203.	0.8	6
164	Statistical Distribution of Intensities Reflected from Disordered Media. Physical Review Letters, 1998, 81, 329-332.	2.9	25
165	Intensity Distribution of Modes in Surface Corrugated Waveguides. Physical Review Letters, 1998, 80, 4165-4168.	2.9	45
166	Statistical significance of conductance quantization. Physical Review B, 1998, 57, 2541-2544.	1.1	14
167	Backscattering from perfectly reflective random media. Physical Review B, 1997, 55, R11911-R11914.	1.1	9
168	Nanocontacts: Probing Electronic Structure under Extreme Uniaxial Strains. Physical Review Letters, 1997, 79, 4198-4201.	2.9	35
169	Nonlinear ballistic conductance in atomic-scale metallic contacts. Physical Review B, 1997, 55, R16029-R16032.	1.1	36
170	Transition from diffusive to localized regimes in surface corrugated optical waveguides. Applied Physics Letters, 1997, 71, 1912-1914.	1.5	41
171	Electronic Structure Under Extreme Uniaxial Strains: Conductance in Metallic Nanocontacts.. Materials Research Society Symposia Proceedings, 1997, 499, 173.	0.1	0
172	Conductance and Mechanical Properties of Atomic-Scale Metallic Contacts. , 1997, , 91-108.		0
173	Conductance and Mechanical Properties of Atomic-Size Metallic Contacts: A Simple Model. Physical Review Letters, 1996, 77, 2245-2248.	2.9	83
174	Three-dimensional image interaction for nonsmooth emitters. Applied Physics Letters, 1996, 69, 1169-1171.	1.5	15
175	Conductance steps in point contacts: Quantization or cross-section jumps?. Physica B: Condensed Matter, 1996, 218, 234-237.	1.3	18
176	Real-Time Observation of the Dynamics of Single Pb Atoms on Si(111) by Scanning Tunneling Microscopy. Physical Review Letters, 1996, 76, 799-802.	2.9	130
177	Finite size corrections to the conductance of ballistic wires. Physical Review B, 1996, 54, 13448-13451.	1.1	47
178	Image charge method for electrostatic calculations in field emission diodes. Journal of Applied Physics, 1996, 79, 39-44.	1.1	84
179	Current characteristics in near field emission scanning tunneling microscopes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 2403.	1.6	7
180	Diffusion of atoms on Au(111) by the electric field gradient in scanning tunneling microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 1145.	1.6	30

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181	Scanning tunneling microscopy modification of purple membranes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1995, 13, 1737-1741.	0.9	0
182	Theory of conduction through narrow constrictions in a three-dimensional electron gas. Physical Review B, 1994, 49, 16581-16584.	1.1	160
183	Near field emission scanning tunneling microscopy. Applied Physics Letters, 1994, 65, 3022-3024.	1.5	37
184	Quantum atom switch: Tunneling of Xe atoms. Physical Review B, 1993, 47, 7537-7541.	1.1	24
185	Coherent electron-beam splitting in a two-dimensional electron gas. Journal of Physics Condensed Matter, 1992, 4, L43-L46.	0.7	0
186	3D calculations at atomic scale of the electrostatic potential and field created by a teton tip. Ultramicroscopy, 1992, 42-44, 154-162.	0.8	54
187	It is possible to observe biological macromolecules by electrostatic force microscopy?. Ultramicroscopy, 1992, 42-44, 1189-1193.	0.8	11
188	Is scanning tunneling microscopy a useful tool for probing the surface potential?. Surface Science, 1991, 251-252, 223-227.	0.8	10
189	Electrostatic and contact forces in force microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 1323.	1.6	147
190	Focused electron emission from planar quantum point contacts. Physical Review Letters, 1989, 63, 2260-2263.	2.9	17
191	Electron emission from small sources. Journal of Physics Condensed Matter, 1989, 1, 9931-9956.	0.7	25
192	ELECTRON EMISSION FROM SMALL MICROTIPS. Journal De Physique Colloque, 1989, 50, C8-73-C8-78.	0.2	3
193	Theory of magnetic imaging by STM force microscopy (invited) (abstract). Journal of Applied Physics, 1988, 63, 2947-2947.	1.1	3
194	Coulomb fragmentation of doubly ionized molecular clusters. Physical Review A, 1988, 37, 1401-1405.	1.0	31
195	Theory of magnetic imaging by force microscopy. Applied Physics Letters, 1988, 53, 1449-1451.	1.5	50
196	Dissociation channels of multiply charged van der Waals clusters. Physical Review A, 1988, 38, 3236-3248.	1.0	101
197	Finite-size effects cannot explain experimental equilibrium crystal shape. Journal of Physics C: Solid State Physics, 1988, 21, L305-L310.	1.5	4
198	Coherent electron emission from point sources. Journal of Microscopy, 1988, 152, 43-51.	0.8	22

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199	Observation of magnetic forces by the atomic force microscope. Journal of Applied Physics, 1987, 62, 4293-4295.	1.1	334
200	Tunneling current through localized surface states. Surface Science, 1987, 181, 69-77.	0.8	15
201	Distance-voltage characteristics in scanning tunneling microscopy. Journal of Physics C: Solid State Physics, 1986, 19, L131-L134.	1.5	13
202	Conductivity and structure of thin oxide layers grown on a metal substrate: Scanning-tunneling microscopy in NiO on Ni(100). Physical Review B, 1986, 33, 4439-4442.	1.1	15
203	Dissociation Channels for Multiply Charged Clusters. Physical Review Letters, 1986, 56, 1551-1554.	2.9	87
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