

# Elisa Molinari

## List of Publications by Year in descending order

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262  
papers

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268  
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268  
docs citations

268  
times ranked

8942  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent ultrafast charge transfer in an organic photovoltaic blend. <i>Science</i> , 2014, 344, 1001-1005.	6.0	470
2	Exciton binding energies in carbon nanotubes from two-photon photoluminescence. <i>Physical Review B</i> , 2005, 72, .	1.1	441
3	Electronic Structure of Atomically Precise Graphene Nanoribbons. <i>ACS Nano</i> , 2012, 6, 6930-6935.	7.3	410
4	Anharmonic Phonon Lifetimes in Semiconductors from Density-Functional Perturbation Theory. <i>Physical Review Letters</i> , 1995, 75, 1819-1822.	2.9	325
5	Excitons in Carbon Nanotubes: An Ab Initio Symmetry-Based Approach. <i>Physical Review Letters</i> , 2004, 92, 196401.	2.9	269
6	Microscopic calculation of the electron-phonon interaction in quantum wells. <i>Physical Review B</i> , 1992, 45, 6747-6756.	1.1	241
7	Few-Particle Effects in Semiconductor Quantum Dots: Observation of Multicharged Excitons. <i>Physical Review Letters</i> , 2000, 84, 5648-5651.	2.9	239
8	Quantum coherence controls the charge separation in a prototypical artificial light-harvesting system. <i>Nature Communications</i> , 2013, 4, 1602.	5.8	239
9	GolP: An atomistic force field to describe the interaction of proteins with Au(111) surfaces in water. <i>Journal of Computational Chemistry</i> , 2009, 30, 1465-1476.	1.5	237
10	Optical properties of graphene nanoribbons: The role of many-body effects. <i>Physical Review B</i> , 2008, 77, .	1.1	235
11	DFT Study of Cysteine Adsorption on Au(111). <i>Journal of Physical Chemistry B</i> , 2003, 107, 1151-1156.	1.2	200
12	Electron-phonon interaction in quasi-two-dimensional systems. <i>Physical Review B</i> , 1991, 44, 3463-3466.	1.1	177
13	Exploiting exciton-exciton interactions in semiconductor quantum dots for quantum-information processing. <i>Physical Review B</i> , 2000, 62, R2263-R2266.	1.1	163
14	Anisotropy of surface optical properties from first-principles calculations. <i>Physical Review B</i> , 1990, 41, 9935-9946.	1.1	160
15	Exciton-dominated optical response of ultra-narrow graphene nanoribbons. <i>Nature Communications</i> , 2014, 5, 4253.	5.8	155
16	Solid State Effects on Exciton States and Optical Properties of PPV. <i>Physical Review Letters</i> , 2002, 88, 206403.	2.9	152
17	Tracking the coherent generation of polaron pairs in conjugated polymers. <i>Nature Communications</i> , 2016, 7, 13742.	5.8	149
18	Coulomb-Induced Suppression of Band-Edge Singularities in the Optical Spectra of Realistic Quantum-Wire Structures. <i>Physical Review Letters</i> , 1996, 76, 3642-3645.	2.9	137

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19	Mixing of Electronic States in Pentacene Adsorption on Copper. <i>Physical Review Letters</i> , 2007, 99, 046802.	2.9	132
20	Exciton Binding Energy in GaAs V-Shaped Quantum Wires. <i>Physical Review Letters</i> , 1994, 73, 2899-2902.	2.9	131
21	Potential energy surface for graphene on graphene: <i>Ab initio</i> derivation, analytical description, and microscopic interpretation. <i>Physical Review B</i> , 2012, 86, .	1.1	128
22	Phonon spectra of ultrathin GaAs/AlAs superlattices: <i>Ab initio</i> calculation. <i>Physical Review B</i> , 1990, 41, 3870-3873.	1.1	116
23	Sliding Properties of MoS <sub>2</sub> Layers: Load and Interlayer Orientation Effects. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13809-13816.	1.5	106
24	High-Finesse Optical Quantum Gates for Electron Spins in Artificial Molecules. <i>Physical Review Letters</i> , 2003, 90, 206802.	2.9	91
25	Electron states of an Sb-ordered overlayer on GaAs(110). <i>Physical Review B</i> , 1983, 27, 1251-1258.	1.1	89
26	Theoretical study of the electronic structure of GaP(110). <i>Physical Review B</i> , 1981, 24, 6029-6042.	1.1	88
27	Calculated superlattice and interface phonons of InAs/GaSb superlattices. <i>Physical Review B</i> , 1986, 33, 8889-8891.	1.1	88
28	Effects of disorder on the Raman spectra of GaAs/AlAs superlattices. <i>Physical Review B</i> , 1992, 45, 4280-4288.	1.1	88
29	Exciton–exciton annihilation and biexciton stimulated emission in graphene nanoribbons. <i>Nature Communications</i> , 2016, 7, 11010.	5.8	85
30	Towards Protein Field-Effect Transistors: Report and Model of a Prototype. <i>Advanced Materials</i> , 2005, 17, 816-822.	11.1	84
31	Raman Fingerprints of Atomically Precise Graphene Nanoribbons. <i>Nano Letters</i> , 2016, 16, 3442-3447.	4.5	83
32	Coulomb correlation effects in semiconductor quantum dots: The role of dimensionality. <i>Physical Review B</i> , 1999, 59, 10165-10175.	1.1	82
33	Probing the mechanism for graphene nanoribbon formation on gold surfaces through X-ray spectroscopy. <i>Chemical Science</i> , 2014, 5, 4419-4423.	3.7	81
34	G-quartet biomolecular nanowires. <i>Applied Physics Letters</i> , 2002, 80, 3331-3333.	1.5	80
35	Confined longitudinal and transverse phonons in GaAs/AlAs superlattices. <i>Superlattices and Microstructures</i> , 1986, 2, 397-400.	1.4	78
36	<i>Ab initio</i> study of model guanine assemblies: The role of $\pi$ - $\pi$ coupling and band transport. <i>Physical Review B</i> , 2001, 65, .	1.1	78

#	ARTICLE	IF	CITATIONS
37	Resonant quasiconfined optical phonons in semiconductor superlattices. <i>Physical Review B</i> , 1989, 39, 3923-3926.	1.1	76
38	Shape-Independent Scaling of Excitonic Confinement in Realistic Quantum Wires. <i>Physical Review Letters</i> , 1997, 78, 3527-3530.	2.9	76
39	Linear and nonlinear optical properties of realistic quantum-wire structures: The dominant role of Coulomb correlation. <i>Physical Review B</i> , 1996, 53, 16462-16473.	1.1	73
40	Electronic rectification in protein devices. <i>Applied Physics Letters</i> , 2003, 82, 472-474.	1.5	73
41	First-Principles Theory of Correlated Transport through Nanojunctions. <i>Physical Review Letters</i> , 2005, 94, 116802.	2.9	72
42	How To Identify Plasmons from the Optical Response of Nanostructures. <i>ACS Nano</i> , 2017, 11, 7321-7335.	7.3	72
43	In-plane Raman scattering of (001)-Si/Ge superlattices: Theory and experiment. <i>Physical Review B</i> , 1994, 49, 5406-5414.	1.1	71
44	A molecular state of correlated electrons in a quantum dot. <i>Nature Physics</i> , 2008, 4, 467-471.	6.5	70
45	Optical emission from small Si particles. <i>Solid State Communications</i> , 1997, 102, 545-549.	0.9	69
46	Coherent population transfer in coupled semiconductor quantum dots. <i>Applied Physics Letters</i> , 2000, 77, 1864.	1.5	69
47	Bandgap Engineering of Graphene Nanoribbons by Control over Structural Distortion. <i>Journal of the American Chemical Society</i> , 2018, 140, 7803-7809.	6.6	68
48	Calculated phonon spectra of Si/Ge(001) superlattices: Features for interface characterization. <i>Applied Physics Letters</i> , 1989, 54, 1220-1222.	1.5	65
49	Magnetic States in Prismatic Core Multishell Nanowires. <i>Nano Letters</i> , 2009, 9, 1631-1635.	4.5	63
50	A monolayer transition-metal dichalcogenide as a topological excitonic insulator. <i>Nature Nanotechnology</i> , 2020, 15, 367-372.	15.6	61
51	Quantum dot states and optical excitations of edge-modulated graphene nanoribbons. <i>Physical Review B</i> , 2011, 84, .	1.1	59
52	Molecular phases in coupled quantum dots. <i>Physical Review B</i> , 2004, 69, .	1.1	58
53	Surface-Assisted Reactions toward Formation of Graphene Nanoribbons on Au(110) Surface. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2427-2437.	1.5	57
54	Evidence for equilibrium exciton condensation in monolayer WTe <sub>2</sub> . <i>Nature Physics</i> , 2022, 18, 94-99.	6.5	55

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55	Electronic Properties of Polymer Crystals: The Effect of Interchain Interactions. <i>Physical Review Letters</i> , 2003, 90, 086401.	2.9	54
56	Local Optical Spectroscopy in Quantum Confined Systems: A Theoretical Description. <i>Physical Review Letters</i> , 1999, 82, 847-850.	2.9	53
57	First-principles comparative study on the interlayer adhesion and shear strength of transition-metal dichalcogenides and graphene. <i>Physical Review B</i> , 2015, 92, .	1.1	53
58	Electronics and Optics of Graphene Nanoflakes: Edge Functionalization and Structural Distortions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17328-17335.	1.5	52
59	Friction by Shear Deformations in Multilayer Graphene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21104-21108.	1.5	52
60	Coupled free-carrier and exciton relaxation in optically excited semiconductors. <i>Physical Review B</i> , 1996, 54, 4660-4673.	1.1	51
61	Interchain interaction and Davydov splitting in polythiophene crystals: An ab initio approach. <i>Applied Physics Letters</i> , 2002, 80, 4118-4120.	1.5	51
62	Quantifying the Plasmonic Character of Optical Excitations in Nanostructures. <i>ACS Photonics</i> , 2016, 3, 520-525.	3.2	51
63	Carbon nanotubes as excitonic insulators. <i>Nature Communications</i> , 2017, 8, 1461.	5.8	51
64	Superlattice Effects on Confined Phonons. <i>Physical Review Letters</i> , 1986, 56, 1751-1751.	2.9	50
65	Ultrafast carrier relaxation and vertical-transport phenomena in semiconductor superlattices: A Monte Carlo analysis. <i>Physical Review B</i> , 1995, 51, 16943-16953.	1.1	49
66	Quantum phases in artificial molecules. <i>Solid State Communications</i> , 2001, 119, 309-321.	0.9	49
67	Calculated longitudinal superlattice and interface phonons of superlattices. <i>Superlattices and Microstructures</i> , 1987, 3, 117-120.	1.4	48
68	Interface mode in Si/Ge superlattices: Theory and experiments. <i>Physical Review B</i> , 1993, 48, 8959-8962.	1.1	48
69	Cylindrical two-dimensional electron gas in a transverse magnetic field. <i>Physical Review B</i> , 2008, 78, .	1.1	48
70	Evidence of Correlation in Spin Excitations of Few-Electron Quantum Dots. <i>Physical Review Letters</i> , 2005, 95, 266806.	2.9	47
71	Light-Induced Field Enhancement in Nanoscale Systems from First-Principles: The Case of Polyacenes. <i>ACS Photonics</i> , 2014, 1, 1049-1058.	3.2	47
72	Direct experimental observation of fracton mode patterns in one-dimensional Cantor composites. <i>Physical Review Letters</i> , 1992, 68, 1555-1558.	2.9	46

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73	Spin-transport selectivity upon Co adsorption on antiferromagnetic graphene nanoribbons. <i>Journal of Chemical Physics</i> , 2010, 133, 124703.	1.2	45
74	Self-induced transparency in semiconductor quantum dots. <i>Physical Review B</i> , 2002, 65, .	1.1	44
75	Biexciton Stability in Carbon Nanotubes. <i>Physical Review Letters</i> , 2007, 99, 126806.	2.9	44
76	Optical Properties and Charge-Transfer Excitations in Edge-Functionalized All-Graphene Nanojunctions. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1315-1319.	2.1	44
77	Microscopic calculation of the electron–optical-phonon interaction in ultrathin GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As alloy quantum-well systems. <i>Physical Review B</i> , 1995, 51, 7046-7057.	1.1	43
78	Multiple quantum phases in artificial double-dot molecules. <i>Solid State Communications</i> , 1999, 112, 151-155.	0.9	43
79	Phonon-induced electron relaxation in weakly confined single and coupled quantum dots. <i>Physical Review B</i> , 2006, 74, .	1.1	43
80	First-principles density-functional theory calculations of electron-transfer rates in azurin dimers. <i>Journal of Chemical Physics</i> , 2006, 124, 064501.	1.2	42
81	Electron-hole localization in coupled quantum dots. <i>Physical Review B</i> , 2002, 65, .	1.1	41
82	Imaging quasiparticle wave functions in quantum dots via tunneling spectroscopy. <i>Physical Review B</i> , 2005, 71, .	1.1	41
83	Protein–surface interactions: challenging experiments and computations. <i>Journal of Molecular Recognition</i> , 2010, 23, 259-262.	1.1	41
84	Infrared reflectivity by transverse-optical phonons in (GaAs) <sub>m</sub> /(AlAs) <sub>n</sub> ultrathin-layer superlattices. <i>Physical Review B</i> , 1991, 43, 14754-14757.	1.1	38
85	Calculations of phonon spectra in III–V and Si–Ge superlattices: A tool for structural characterization. <i>Surface Science</i> , 1990, 228, 112-119.	0.8	36
86	Band structure and optical anisotropy in V-shaped and T-shaped semiconductor quantum wires. <i>Physical Review B</i> , 1997, 55, 7110-7123.	1.1	36
87	Phonon-assisted exciton formation and relaxation in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. <i>Physical Review B</i> , 1997, 55, R16049-R16052.	1.1	36
88	Addition energies in semiconductor quantum dots: Role of electron–electron interaction. <i>Applied Physics Letters</i> , 1998, 72, 957-959.	1.5	36
89	Designing All-Graphene Nanojunctions by Covalent Functionalization. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2969-2973.	1.5	36
90	Micro-Raman scattering in ultrathin-layer superlattices: Evidence of zone-center anisotropy of optical phonons. <i>Physical Review B</i> , 1993, 47, 1483-1488.	1.1	35

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91	Exciton formation and relaxation in GaAs epilayers. <i>Physical Review B</i> , 1998, 58, R13403-R13406.	1.1	35
92	Local absorption spectra of artificial atoms and molecules. <i>Physical Review B</i> , 2000, 62, 13657-13666.	1.1	34
93	Valence band spectroscopy in $\Lambda$ -grooved quantum wires. <i>Applied Physics Letters</i> , 1996, 69, 2965-2967.	1.5	33
94	Strong Exciton Binding in Quantum Structures through Remote Dielectric Confinement. <i>Physical Review Letters</i> , 1998, 80, 4995-4998.	2.9	33
95	Few-particle effects in the optical spectra of semiconductor quantum dots. <i>Solid State Communications</i> , 1999, 111, 187-192.	0.9	33
96	Effects of few-particle interaction on the atomiclike levels of a single strain-induced quantum dot. <i>Physical Review B</i> , 2000, 62, 1592-1595.	1.1	33
97	Reduced Electron Relaxation Rate in Multielectron Quantum Dots. <i>Physical Review Letters</i> , 2005, 95, 066806.	2.9	33
98	First-principles approach for the calculation of optical properties of one-dimensional systems with helical symmetry: The case of carbon nanotubes. <i>Physical Review B</i> , 2005, 72, .	1.1	33
99	Magnetic field dependence of triplet-singlet relaxation in quantum dots with spin-orbit coupling. <i>Physical Review B</i> , 2007, 75, .	1.1	33
100	Self-consistent pseudopotential calculation of the electronic properties of the InP (110) surface. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 1099-1109.	1.5	32
101	Interplanar forces and phonon spectra of strained Si and Ge:Ab initio calculations and applications to Si/Ge superlattices. <i>Physical Review B</i> , 1990, 42, 7090-7096.	1.1	32
102	Electron-phonon interactions in two-dimensional systems: a microscopic approach. <i>Semiconductor Science and Technology</i> , 1992, 7, B67-B72.	1.0	32
103	Competing mechanisms for singlet-triplet transition in artificial molecules. <i>Physical Review B</i> , 2004, 69, .	1.1	32
104	Optical Excitations and Field Enhancement in Short Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 924-929.	2.1	32
105	Correlation Effects in Wave Function Mapping of Molecular Beam Epitaxy Grown Quantum Dots. <i>Nano Letters</i> , 2007, 7, 2701-2706.	4.5	31
106	Phonons in thin GaAs quantum wires. <i>Physical Review B</i> , 1993, 47, 1695-1698.	1.1	30
107	Origin of surface anisotropies in the optical spectra of III-V compounds. <i>Physical Review B</i> , 1989, 39, 13005-13008.	1.1	29
108	Surface nanopatterning through styrene adsorption on Si(100). <i>Physical Review B</i> , 2006, 73, .	1.1	29

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109	<i>Ab Initio</i> Simulation of Optical Limiting: The Case of Metal-Free Phthalocyanine. <i>Physical Review Letters</i> , 2014, 112, 198303.	2.9	29
110	Ultrafast relaxation of photoexcited carriers in semiconductor quantum wires: A Monte Carlo approach. <i>Physical Review B</i> , 1995, 52, 5183-5201.	1.1	27
111	Self-assembled guanine ribbons as wide-bandgap semiconductors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 1236-1239.	1.3	27
112	Electron Channels in Biomolecular Nanowires. <i>Journal of Physical Chemistry B</i> , 2004, 108, 2509-2515.	1.2	27
113	Water-Mediated Electron Transfer between Protein Redox Centers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3774-3781.	1.2	27
114	Bonding and surface electronic structure of an Sb overlayer on GaP(110). <i>Surface Science</i> , 1987, 184, 449-462.	0.8	26
115	Reduced carrier cooling and thermalization in semiconductor quantum wires. <i>Physical Review B</i> , 1993, 47, 1632-1635.	1.1	26
116	Symmetry lowering of pentacene molecular states interacting with a Cu surface. <i>Physical Review B</i> , 2007, 76, .	1.1	26
117	Long range order in Al <sub>0.5</sub> Ga <sub>0.5</sub> As: Local density calculation of the electronic structure. <i>Solid State Communications</i> , 1985, 56, 125-126.	0.9	25
118	Atomic intermixing in short period GaAs/AlAs superlattices. <i>Surface Science</i> , 1992, 267, 171-175.	0.8	25
119	Raman signatures of classical and quantum phases in coupled dots: A theoretical prediction. <i>Europhysics Letters</i> , 2002, 58, 555-561.	0.7	25
120	Ab initio study of transport parameters in polymer crystals. <i>Physical Review B</i> , 2004, 69, .	1.1	25
121	Effect of electron-electron interaction on the phonon-mediated spin relaxation in quantum dots. <i>Physical Review B</i> , 2007, 76, .	1.1	25
122	Role of the electronic properties of azurin active site in the electron-transfer process. <i>International Journal of Quantum Chemistry</i> , 2005, 102, 328-342.	1.0	24
123	Stopband edges in the dispersion curves of Lamb waves propagating in piezoelectric periodical structures. <i>Applied Physics Letters</i> , 1988, 53, 1806-1808.	1.5	23
124	Optical near-field mapping of excitons and biexcitons in naturally occurring semiconductor quantum dots. <i>Applied Physics Letters</i> , 2004, 84, 3963-3965.	1.5	23
125	Evidence of ideal excitonic insulator in bulk MoS <sub>2</sub> under pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	23
126	Electronic and optical properties of doped TiO <sub>2</sub> by many-body perturbation theory. <i>Physical Review Materials</i> , 2019, 3, .	2.8	23



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127	Planar force-constant method for lattice dynamics of superstructures. <i>Physical Review B</i> , 1990, 41, 8302-8312.	1.1	22
128	Vibrational properties of a continuous self-similar structure. <i>Physical Review B</i> , 1994, 49, 15067-15075.	1.1	22
129	Dominance of charged excitons in single-quantum-dot photoluminescence spectra. <i>Physical Review B</i> , 2002, 66, .	1.1	22
130	Unraveling effects of disorder on the electronic structure of $\text{SiO}_2$ first principles. <i>Physical Review B</i> , 2010, 81, .	1.1	22
131	Intermolecular conical intersections in molecular aggregates. <i>Nature Nanotechnology</i> , 2021, 16, 63-68.	15.6	22
132	Ab Initio Study of Chemisorption Reactions for Carboxylic Acids on Hydrogenated Silicon Surfaces. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17278-17280.	1.2	21
133	Quantum interferences in the Raman cross section for the radial breathing mode in metallic carbon nanotubes. <i>Physical Review B</i> , 2005, 71, .	1.1	21
134	Dark-State Luminescence of Macroatoms at the Near Field. <i>Physical Review Letters</i> , 2005, 95, 216802.	2.9	21
135	A coupled-mode theory for periodic piezoelectric composites. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1989, 36, 50-56.	1.7	20
136	Cation interdiffusion in GaAs/AlAs superlattices measured with Raman spectroscopy. <i>Applied Physics Letters</i> , 1991, 59, 2859-2861.	1.5	20
137	Single-electron charging in quantum dots with large dielectric mismatch. <i>Physical Review B</i> , 2001, 63, .	1.1	20
138	Anisotropy and Size Effects on the Optical Spectra of Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6507-6513.	1.1	20
139	Field-controlled suppression of phonon-induced transitions in coupled quantum dots. <i>Applied Physics Letters</i> , 2004, 85, 4729-4731.	1.5	19
140	Optical Properties of Bilayer Graphene Nanoflakes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23219-23225.	1.5	19
141	Imaging correlated wave functions of few-electron quantum dots: Theory and scanning tunneling spectroscopy experiments. <i>Journal of Applied Physics</i> , 2007, 101, 081714.	1.1	18
142	Interaction of electrons with interface phonons in GaAs/AlAs and GaAs/AlGaAs heterostructures. <i>Semiconductor Science and Technology</i> , 1992, 7, B116-B119.	1.0	17
143	Low threshold subharmonic generation in composite structures with Cantor-like code. <i>Physical Review Letters</i> , 1992, 69, 3318-3321.	2.9	17
144	Optical spectra of nitride quantum dots: Quantum confinement and electron-hole coupling. <i>Applied Physics Letters</i> , 1999, 75, 3449-3451.	1.5	17

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145	Microscopic calculation of differential reflectivity of GaP(110). <i>Surface Science</i> , 1987, 189-190, 1028-1032.	0.8	16
146	Electron-phonon interaction in two-dimensional systems: A microscopic approach. <i>Superlattices and Microstructures</i> , 1991, 10, 471-478.	1.4	16
147	Theory of excitonic confinement in semiconductor quantum wires. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 5969-5988.	0.7	16
148	Enhancement of Coulomb interactions in semiconductor nanostructures by dielectric confinement. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 482-485.	1.3	16
149	Electronic properties of guanine-based nanowires. <i>Solid State Communications</i> , 2004, 131, 557-564.	0.9	16
150	Water Effects on Electron Transfer in Azurin Dimers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23796-23800.	1.2	16
151	Finite-size effects in the frequency response of piezoelectric composite plates. <i>Journal of Applied Physics</i> , 1989, 66, 2828-2832.	1.1	15
152	SiO <sub>2</sub> in density functional theory and beyond. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1061-1066.	0.7	15
153	GaAs/AlAs monolayer superlattices: A new candidate for a highly spin-polarized electron source. <i>Solid State Communications</i> , 1987, 62, 1-3.	0.9	14
154	Tailoring of light emission properties of functionalized oligothiophenes. <i>Applied Physics Letters</i> , 2001, 79, 2505-2507.	1.5	14
155	The effect of dielectric polarization-induced surface states on many-body configurations in a quantum dot. <i>Semiconductor Science and Technology</i> , 2002, 17, 1302-1311.	1.0	14
156	Ab-initio study of excitonic effects in conventional and organic semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 1754-1758.	0.7	14
157	Effect of the Coulomb interaction on the electron relaxation of weakly-confined quantum dot systems using the full configuration interaction approach. <i>Physical Review B</i> , 2006, 74, .	1.1	14
158	Phonons in Si/GaAs superlattices. <i>Physical Review B</i> , 1992, 46, 7296-7299.	1.1	13
159	InAs/GaSb(001) valence-band offset: Independence of interface composition and strain. <i>Applied Physics Letters</i> , 1996, 69, 3218-3220.	1.5	13
160	Quantum interference in nanometric devices: Ballistic transport across arrays of T-shaped quantum wires. <i>Applied Physics Letters</i> , 1997, 71, 1519-1521.	1.5	13
161	Neutral and charged electron-hole complexes in artificial molecules: Quantum transitions induced by the in-plane magnetic field. <i>Physical Review B</i> , 2004, 70, .	1.1	13
162	Excitons in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3204-3208.	0.7	13

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163	Biomolecular Electronic Devices Based on Self-Organized Deoxyguanosine Nanocrystals. Annals of the New York Academy of Sciences, 2002, 960, 184-192.	1.8	13
164	First-principles calculation of anisotropic reflectance at the GaAs(110) surface. Surface Science, 1989, 211-212, 518-523.	0.8	12
165	Si-GaAs(001) superlattice structure. Journal of Crystal Growth, 1993, 127, 121-125.	0.7	12
166	Local optical spectroscopy of semiconductor nanostructures in the linear regime. Physical Review B, 2000, 62, 8204-8211.	1.1	11
167	Suppression of acoustic-phonon-induced electron transitions in coupled quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 427-431.	1.3	11
168	Piezoelectric plate resonances due to first Lamb symmetrical mode. Journal of Applied Physics, 1988, 64, 2238-2240.	1.1	10
169	Si-GaAs(001) superlattices. Applied Physics Letters, 1992, 61, 1570-1572.	1.5	10
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