Alessandro Pecchia

List of Publications by Year
in descending order

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338	10,962	29994	45213
papers	citations	54 h-index	90 g-index

342	342	342	12993
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selective and self-validating breath-level detection of hydrogen sulfide in humid air by gold nanoparticle-functionalized nanotube arrays. Nano Research, 2022, 15, 2512-2521.	5.8	21
2	Effect of lubricants on the rotational transmission between solid-state gears. Beilstein Journal of Nanotechnology, 2022, 13, 54-62.	1.5	1
3	Emerging Internet of Things driven carbon nanotubes-based devices. Nano Research, 2022, 15, 4613-4637.	5.8	23
4	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. Materials Advances, 2022, 3, 1497-1505.	2.6	14
5	Continuous monitoring of molecular biomarkers in microfluidic devices. Progress in Molecular Biology and Translational Science, 2022, 187, 295-333.	0.9	0
6	A nanographene disk rotating a single molecule gear on a Cu(111) surface. Nanotechnology, 2022, 33, 175701.	1.3	3
7	Applications of nanogenerators for biomedical engineering and healthcare systems. InformaÄnÃ-MateriÃ¡ly, 2022, 4, .	8.5	45
8	Machine Learningâ€Enabled Smart Gas Sensing Platform for Identification of Industrial Gases. Advanced Intelligent Systems, 2022, 4, .	3.3	18
9	A Chirality-Based Quantum Leap. ACS Nano, 2022, 16, 4989-5035.	7.3	74
10	Membranotronics: Bioinspired Nonlinear Ion Transport with Negative Differential Resistance Based on Elastomeric Membrane System. Advanced Functional Materials, 2022, 32, .	7.8	5
11	Nanosensors in clinical development of CAR-T cell immunotherapy. Biosensors and Bioelectronics, 2022, 206, 114124.	5.3	5
12	On-water surface synthesis of charged two-dimensional polymer single crystals via the irreversible Katritzky reaction. , 2022, 1, 69-76.		34
13	StarPEGâ€“heparin biosensors for rapid and portable diagnostics in complex biofluids. Sensors & Diagnostics, 2022, 1, 558-565.	1.9	3
14	Exploring the similarity of single-layer covalent organic frameworks using electronic structure calculations. RSC Advances, 2022, 12, 12283-12291.	1.7	6
15	Ultrahigh Electron Thermal Conductivity in Tâ€Graphene, Biphenylene, and Netâ€Graphene. Advanced Energy Materials, 2022, 12, .	10.2	26
16	Anisotropic Phononic and Electronic Thermal Transport in BeN₄. Journal of Physical Chemistry Letters, 2022, , 4501-4505.	2.1	5
17	The contribution of intermolecular spin interactions to the London dispersion forces between chiral molecules. Journal of Chemical Physics, 2022, 156, .	1.2	9
18	Notice of Removal: Industrial Gases Identification Using Graphene-based Gas Sensors: NH₃ and PH₃ as an Example. , 2022, , .		0

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19	Notice of Removal: Machine Learning-enabled Biomimetic Electronic Olfaction Using Graphene Single-channel Sensors. , 2022, , .		0
20	Predicting the bulk modulus of single-layer covalent organic frameworks with square-lattice topology from molecular building-block properties. Nanoscale, 2021, 13, 1077-1085.	2.8	8
21	Effects of external mechanical or magnetic fields and defects on electronic and transport properties of graphene. Materials Today: Proceedings, 2021, 35, 523-529.	0.9	14
22	Coexistence of fluorescent Escherichia coli strains in millifluidic droplet reactors. Lab on A Chip, 2021, 21, 1492-1502.	3.1	7
23	Enhanced visible-light photodegradation of fluoroquinolone-based antibiotics and E. coli growth inhibition using Agâ€“TiO₂ nanoparticles. RSC Advances, 2021, 11, 13980-13991.	1.7	26
24	One-way rotation of a chemically anchored single molecule-rotor. Nanoscale, 2021, 13, 16077-16083.	2.8	11
25	Theoretical Insight into Highâ€Efficiency Tripleâ€Junction Tandem Solar Cells via the Band Engineering of Antimony Chalcogenides. Solar Rrl, 2021, 5, 2000800.	3.1	70
26	Nanoscale Phononic Analog of the Ranque-Hilsch Vortex Tube. Physical Review Applied, 2021, 15, .	1.5	1
27	Impact of surface charge on the motion of light-activated Janus micromotors. European Physical Journal E, 2021, 44, 39.	0.7	8
28	Thermoelectric Energy Harvesting from Single-Walled Carbon Nanotube Alkali-Activated Nanocomposites Produced from Industrial Waste Materials. Nanomaterials, 2021, 11, 1095.	1.9	13
29	Synthesis of Waferâ€Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. Advanced Materials Technologies, 2021, 6, 2000744.	3.0	46
30	Olfactory Perception in Relation to the Physicochemical Odor Space. Brain Sciences, 2021, 11, 563.	1.1	8
31	Piezoelectric tunability and topological insulator transition in a GaN/InN/GaN quantum-well device. JPhys Materials, 2021, 4, 034008.	1.8	1
32	Highly Sensitive Silicon Nanowire Biosensor Devices for the Investigation of UniCAR Platform in Immunotherapy. Engineering Proceedings, 2021, 6, .	0.4	0
33	Detection of C-Reactive Protein by Liquid-Gated Carbon Nanotube Field Effect Transistors (LG-CNTFET): A Promising Tool against Antibiotic Resistance. Engineering Proceedings, 2021, 6, .	0.4	0
34	ZnO Low-Dimensional Thin Films Used as a Potential Material for Water Treatment. Engineering Proceedings, 2021, 6, .	0.4	0
35	Supramolecular Functionalized Pristine Graphene Utilizing a Bio-Compatible Stabilizer towards Ultra-Sensitive Ammonia Detection. Engineering Proceedings, 2021, 6, 14.	0.4	0
36	Determining the Diffusion Coefficient of Lithium Insertion Cathodes from GITT measurements: Theoretical Analysis for low Temperatures**. ChemPhysChem, 2021, 22, 885-893.	1.0	30

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37	CuO-Doped Alginate for Simple Electrochemical Vitamin C Sensing in Sweat. Engineering Proceedings, 2021, 6, .	0.4	0
38	Multiscale Modeling Strategy of 2D Covalent Organic Frameworks Confined at an Airâ€“Water Interface. ACS Applied Materials & Interfaces, 2021, 13, 26411-26420.	4.0	9
39	Hemocompatible Electrochemical Sensors for Continuous Monitoring of Blood Parameters. Engineering Proceedings, 2021, 6, .	0.4	1
40	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. Nano-Micro Letters, 2021, 13, 143.	14.4	61
41	An Atomistic Study of the Thermoelectric Signatures of CNT Peapods. Journal of Physical Chemistry C, 2021, 125, 13721-13731.	1.5	5
42	Phononic Thermal Transport along Graphene Grain Boundaries: A Hidden Vulnerability. Advanced Science, 2021, 8, 2101624.	5.6	8
43	Describing chain-like assembly of ethoxygroup-functionalized organic molecules on Au(111) using high-throughput simulations. Scientific Reports, 2021, 11, 14649.	1.6	1
44	The role of structural symmetry on proton tautomerization: A DFTB/Meta-Dynamics computational study. Chemical Physics, 2021, 548, 111222.	0.9	0
45	Electromechanical field effects in InAs/GaAs quantum dots based on continuum kâ†'Â·pâ†' and atomistic tight-binding methods. Computational Materials Science, 2021, 197, 110678.	1.4	11
46	Applications of Carbon Nanotubes in the Internet of Things Era. Nano-Micro Letters, 2021, 13, 191.	14.4	28
47	Investigating a Combined Stochastic Nucleation and Molecular Dynamics-Based Equilibration Approach for Constructing Large-Scale Polycrystalline Films. Journal of Chemical Theory and Computation, 2021, 17, 1266-1275.	2.3	0
48	Onâ€Surface Formation of Cyanoâ€Vinylene Linked Chains by Knoevenagel Condensation. Chemistry - A European Journal, 2021, 27, 17336-17340.	1.7	4
49	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. ACS Sensors, 2021, 6, 3841-3881.	4.0	45
50	Multicolor Patterning of 2D Semiconductor Nanoplatelets. ACS Nano, 2021, 15, 17623-17634.	7.3	12
51	Highâ€performance electronics and optoelectronics of monolayer tungsten diselenide full film from preâ€seeding strategy. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1455-1469.	8.5	32
52	Gas Sensing Discrimination using a Cellular Nonlinear Network. , 2021, , .		1
53	Neuromorphic hybrid systems based on polarizable thin film-coated silicon nanowire field-effect transistors. , 2021, , .		0
54	Non-Equilibrium Green Functions Approach to Study Transport Through a-Si:H/c-Si Interfaces. , 2021, , .		0

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55	A zinc selective oxytocin based biosensor. Journal of Materials Chemistry B, 2020, 8, 155-160.	2.9	11
56	Dodecacene Generated on Surface: Reopening of the Energy Gap. ACS Nano, 2020, 14, 1011-1017.	7.3	93
57	Spin-Polarized Electron Transmission in DNA-Like Systems. Biomolecules, 2020, 10, 49.	1.8	10
58	Comparative Studies of Light-Responsive Swimmers: Janus Nanorods versus Spherical Particles. Langmuir, 2020, 36, 12504-12512.	1.6	4
59	Nanosensor-Based Real-Time Monitoring of Stress Biomarkers in Human Saliva Using a Portable Measurement System. ACS Sensors, 2020, 5, 4081-4091.	4.0	26
60	Role of Exchange Interactions in the Magnetic Response and Intermolecular Recognition of Chiral Molecules. Nano Letters, 2020, 20, 7077-7086.	4.5	35
61	Nanocytometer for smart analysis of peripheral blood and acute myeloid leukemia: a pilot study. Nano Letters, 2020, 20, 6572-6581.	4.5	14
62	Simulating random alloy effects in III-nitride light emitting diodes. Journal of Applied Physics, 2020, 128, 041102.	1.1	21
63	Inverse Solidification Induced by Active Janus Particles. Advanced Functional Materials, 2020, 30, 2003851.	7.8	19
64	Janus Particles: Inverse Solidification Induced by Active Janus Particles (Adv. Funct. Mater. 39/2020). Advanced Functional Materials, 2020, 30, 2070260.	7.8	1
65	Interactions of Long-Chain Polyamines with Silica Studied by Molecular Dynamics Simulations and Solid-State NMR Spectroscopy. Langmuir, 2020, 36, 11600-11609.	1.6	9
66	Electrochemical detection of ascorbic acid in artificial sweat using aÂflexible alginate/CuO-modified electrode. Mikrochimica Acta, 2020, 187, 520.	2.5	37
67	Determination of the Entire Stent Surface Area by a New Analytical Method. Materials, 2020, 13, 5633.	1.3	3
68	STM induced manipulation of azulene-based molecules and nanostructures: the role of the dipole moment. Nanoscale, 2020, 12, 24471-24476.	2.8	10
69	Effective Hamiltonian model for helically constrained quantum systems within adiabatic perturbation theory: Application to the chirality-induced spin selectivity (CISS) effect. Journal of Chemical Physics, 2020, 152, 214105.	1.2	24
70	Surface Modification of Silicon Nanowire Based Field Effect Transistors with Stimuli Responsive Polymer Brushes for Biosensing Applications. Micromachines, 2020, 11, 274.	1.4	18
71	DFTB+, a software package for efficient approximate density functional theory based atomistic simulations. Journal of Chemical Physics, 2020, 152, 124101.	1.2	589
72	Understanding the UV luminescence of zinc germanate: The role of native defects. Acta Materialia, 2020, 196, 626-634.	3.8	12

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73	Twoâ€Dimensional Boronate Ester Covalent Organic Framework Thin Films with Large Single Crystalline Domains for a Neuromorphic Memory Device. Angewandte Chemie - International Edition, 2020, 59, 8218-8224.	7.2	116
74	Boron-Doped Single-Walled Carbon Nanotubes with Enhanced Thermoelectric Power Factor for Flexible Thermoelectric Devices. ACS Applied Energy Materials, 2020, 3, 2556-2564.	2.5	25
75	Enhanced Photocatalytic Activity of Au/TiO2 Nanoparticles against Ciprofloxacin. Catalysts, 2020, 10, 234.	1.6	50
76	Nanosensors-Assisted Quantitative Analysis of Biochemical Processes in Droplets. Micromachines, 2020, 11, 138.	1.4	4
77	Anisotropic Exclusion Effect between Photocatalytic Ag/AgCl Janus Particles and Passive Beads in a Dense Colloidal Matrix. Langmuir, 2020, 36, 7091-7099.	1.6	17
78	Boron Doping of SWCNTs as a Way to Enhance the Thermoelectric Properties of Melt-Mixed Polypropylene/SWCNT Composites. Energies, 2020, 13, 394.	1.6	20
79	Design and Performance of Novel Self-Cleaning g-C3N4/PMMA/PUR Membranes. Polymers, 2020, 12, 850.	2.0	14
80	Nonlinear Work Function Tuning of Leadâ€Halide Perovskites by MXenes with Mixed Terminations. Advanced Functional Materials, 2020, 30, 1909028.	7.8	58
81	Intrinsic plasticity of silicon nanowire neurotransistors for dynamic memory and learning functions. Nature Electronics, 2020, 3, 398-408.	13.1	37
82	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. Journal of Applied Physics, 2019, 126, .	1.1	51
83	Stimulation of bone formation by monocyte-activator functionalized graphene oxide in vivo. Nanoscale, 2019, 11, 19408-19421.	2.8	32
84	Impact of Compositional Nonuniformity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mo>(</mml:mo><mml:mi>In</mml:mi><mml:mo>,</mml:mo><mml:mi>Ga</mml:mi><mml:mo>)</mml:mo><mathvariant="normal">N</mml:mi></mml:mrow></mml:math> -Based Light-Emitting Diodes. Physical Review Applied, 2019, 12, .	1.5	13
85	Quantum Phonon Transport in Nanomaterials: Combining Atomistic with Non-Equilibrium Greenâ€™s Function Techniques. Entropy, 2019, 21, 735.	1.1	12
86	Recapitulating bone development events in a customised bioreactor through interplay of oxygen tension, medium pH, and systematic differentiation approaches. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1672-1684.	1.3	1
87	Chirality-Induced Spin Selectivity in a Coarse-Grained Tight-Binding Model for Helicene. Journal of Physical Chemistry C, 2019, 123, 27230-27241.	1.5	44
88	Two-Dimensional SiP, SiAs, GeP and GeAs as Promising Candidates for Photocatalytic Applications. Coatings, 2019, 9, 522.	1.2	32
89	Room temperature single-step synthesis of metal decorated boron-rich nanowires via laser ablation. Nano Convergence, 2019, 6, 14.	6.3	3
90	Titanium-carbide MXenes for work function and interface engineering in perovskite solar cells. Nature Materials, 2019, 18, 1228-1234.	13.3	418

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91	Engineering crystalline quasi-two-dimensional polyaniline thin film with enhanced electrical and chemiresistive sensing performances. Nature Communications, 2019, 10, 4225.	5.8	132
92	ITO Work Function Tunability by Polarizable Chromophore Monolayers. Langmuir, 2019, 35, 2997-3004.	1.6	12
93	Doping engineering of thermoelectric transport in BNC heteronanotubes. Physical Chemistry Chemical Physics, 2019, 21, 1904-1911.	1.3	10
94	Photocatalytic Microporous Membrane against the Increasing Problem of Water Emerging Pollutants. Materials, 2019, 12, 1649.	1.3	32
95	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. Nature Communications, 2019, 10, 2466.	5.8	101
96	Characterization of non-uniform InGaN alloys: spatial localization of carriers and optical properties. Japanese Journal of Applied Physics, 2019, 58, SCCC03.	0.8	4
97	Ammonia Plasma-Induced n-Type Doping of Semiconducting Carbon Nanotube Films: Thermoelectric Properties and Ambient Effects. ACS Applied Materials & Interfaces, 2019, 11, 21807-21814.	4.0	14
98	Electrochemically Exfoliated Highâ€Quality 2Hâ€MoS₂ for Multiflake Thin Film Flexible Biosensors. Small, 2019, 15, e1901265.	5.2	65
99	Electron Transport through Self-Assembled Monolayers of Tripeptides. Journal of Physical Chemistry C, 2019, 123, 9600-9608.	1.5	13
100	Fully sp²â€Carbonâ€Linked Crystalline Twoâ€Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. Chemistry - A European Journal, 2019, 25, 6562-6568.	1.7	40
101	Selective Transmission of Phonons in Molecular Junctions with Nanoscopic Thermal Baths. Journal of Physical Chemistry C, 2019, 123, 9680-9687.	1.5	7
102	Immobilization of Detonation Nanodiamonds on Macroscopic Surfaces. Applied Sciences (Switzerland), 2019, 9, 1064.	1.3	5
103	Thermal bridging of graphene nanosheets via covalent molecular junctions: A non-equilibrium Greenâ€™s functionsâ€“density functional tight-binding study. Nano Research, 2019, 12, 791-799.	5.8	29
104	Application of ÂµCT for the Determination of Total Surface Area of Stents. , 2019, , .		1
105	Metal ion-doped sol-gel film for emulating synaptic activity and short-term non-volatile memory. , 2019, , .		1
106	Nanosensors for Monitoring Bacterial Growth Kinetics and Response to Antibiotics. Proceedings (mdpi), 2018, 1, .	0.2	0
107	Insight into doping efficiency of organic semiconductors from the analysis of the density of states in n-doped C60 and ZnPc. Nature Materials, 2018, 17, 439-444.	13.3	101
108	On the importance of ferroelectric domains for the performance of perovskite solar cells. Nano Energy, 2018, 48, 20-26.	8.2	52

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109	Chirality-Dependent Electron Spin Filtering by Molecular Monolayers of Helicenes. Journal of Physical Chemistry Letters, 2018, 9, 2025-2030.	2.1	154
110	DFT study of interaction of additives with Cu(111) surface relevant to Cu electrodeposition. Journal of Applied Electrochemistry, 2018, 48, 211-219.	1.5	15
111	Unimolecular Logic Gate with Classical Input by Single Gold Atoms. ACS Nano, 2018, 12, 1139-1145.	7.3	24
112	Firstâ€Principleâ€Based Phonon Transport Properties of Nanoscale Graphene Grain Boundaries. Advanced Science, 2018, 5, 1700365.	5.6	17
113	Nanoscale morphology and electronic coupling at the interface between indium tin oxide and organic molecular materials. Nanoscale, 2018, 10, 9376-9385.	2.8	14
114	A Dualâ€Stimuliâ€Responsive Sodiumâ€Bromine Battery with Ultrahigh Energy Density. Advanced Materials, 2018, 30, e1800028.	11.1	56
115	Ultrasensitive detection of Ebola matrix protein in a memristor mode. Nano Research, 2018, 11, 1057-1068.	5.8	43
116	Multiscale simulation of nanostructured devices. , 2018, , .		0
117	Janus Micromotors: Highâ€Motility Visible Lightâ€Driven Ag/AgCl Janus Micromotors (Small 48/2018). Small, 2018, 14, 1870229.	5.2	0
118	Highâ€Motility Visible Lightâ€Driven Ag/AgCl Janus Micromotors. Small, 2018, 14, e1803613.	5.2	56
119	Polymerization driven monomer passage through monolayer chemical vapour deposition graphene. Nature Communications, 2018, 9, 4051.	5.8	20
120	Thermal Decoherence and Disorder Effects on Chiral-Induced Spin Selectivity. Journal of Physical Chemistry Letters, 2018, 9, 5753-5758.	2.1	28
121	Spatial and orientational dependence of electron transfer parameters in aggregates of iridium-containing host materials for OLEDs: coupling constrained density functional theory with molecular dynamics. Physical Chemistry Chemical Physics, 2018, 20, 28393-28399.	1.3	8
122	Enhanced Magnetoresistance in Chiral Molecular Junctions. Journal of Physical Chemistry Letters, 2018, 9, 5453-5459.	2.1	69
123	Electronic Resonances and Gap Stabilization of Higher Acenes on a Gold Surface. ACS Nano, 2018, 12, 8506-8511.	7.3	42
124	Density Functional Tight Binding for Quantum Plasmonics. Journal of Physical Chemistry C, 2018, 122, 19756-19766.	1.5	21
125	Gating Hysteresis as an Indicator for Silicon Nanowire FET Biosensors. Applied Sciences (Switzerland), 2018, 8, 950.	1.3	18
126	Atomistic Framework for Time-Dependent Thermal Transport. Journal of Physical Chemistry C, 2018, 122, 21062-21068.	1.5	3

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127	Tuning the conductance of a molecular wire by the interplay of donor and acceptor units. Nanoscale, 2018, 10, 17131-17139.	2.8	4
128	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. Advanced Materials, 2017, 29, 1605254.	11.1	98
129	Fewâ€Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients. Angewandte Chemie - International Edition, 2017, 56, 3014-3019.	7.2	59
130	Persulfurated Coronene: A New Generation of â€œSulflowerâ€. Journal of the American Chemical Society, 2017, 139, 2168-2171.	6.6	89
131	Fewâ€Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients. Angewandte Chemie, 2017, 129, 3060-3065.	1.6	9
132	Coordination Polymer Framework Based Onâ€Chip Microâ€Supercapacitors with AC Lineâ€Filtering Performance. Angewandte Chemie, 2017, 129, 3978-3982.	1.6	22
133	Coordination Polymer Framework Based Onâ€Chip Microâ€Supercapacitors with AC Lineâ€Filtering Performance. Angewandte Chemie - International Edition, 2017, 56, 3920-3924.	7.2	140
134	Spinâ€“orbit coupling in nearly metallic chiral carbon nanotubes: a density-functional based study. Physical Chemistry Chemical Physics, 2017, 19, 8848-8853.	1.3	10
135	A Stable Saddleâ€Shaped Polycyclic Hydrocarbon with an Openâ€Shell Singlet Ground State. Angewandte Chemie - International Edition, 2017, 56, 3280-3284.	7.2	90
136	Developing a Customized Perfusion Bioreactor Prototype with Controlled Positional Variability in Oxygen Partial Pressure for Bone and Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2017, 23, 286-297.	1.1	17
137	Bipolar nitrogen-doped graphene frameworks as high-performance cathodes for lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 1588-1594.	5.2	21
138	Tuning quantum electron and phonon transport in two-dimensional materials by strain engineering: a Green's function based study. Physical Chemistry Chemical Physics, 2017, 19, 1487-1495.	1.3	19
139	Tuning Near-Infrared Absorbing Donor Materials: A Study of Electronic, Optical, and Charge-Transport Properties of aza-BODIPYs. Chemistry of Materials, 2017, 29, 5525-5536.	3.2	31
140	Carrier transport and emission efficiency in InGaN quantum-dot based light-emitting diodes. Nanotechnology, 2017, 28, 275201.	1.3	13
141	Polycyclic heteroaromatic hydrocarbons containing a benzoisoindole core. Organic Chemistry Frontiers, 2017, 4, 847-852.	2.3	23
142	Influence of electromechanical coupling on optical properties of InGaN quantum-dot based light-emitting diodes. Nanotechnology, 2017, 28, 015701.	1.3	14
143	Negative Photoconductance in Heavily Doped Si Nanowire Field-Effect Transistors. Nano Letters, 2017, 17, 6727-6734.	4.5	69
144	Lightâ€Induced Contraction/Expansion of 1D Photoswitchable Metallopolymer Monitored at the Solidâ€“Liquid Interface. Small, 2017, 13, 1701790.	5.2	18

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145	Copper Induced Conformational Changes of Tripeptide Monolayer Based Impedimetric Biosensor. Scientific Reports, 2017, 7, 9498.	1.6	20
146	In-Situ Stretching Patterned Graphene Nanoribbons in the Transmission Electron Microscope. Scientific Reports, 2017, 7, 211.	1.6	26
147	Decacene: Onâ€Surface Generation. Angewandte Chemie - International Edition, 2017, 56, 11945-11948.	7.2	146
148	Exciton Binding Energy in Molecular Triads. Journal of Physical Chemistry C, 2017, 121, 17088-17095.	1.5	64
149	Decacene: Onâ€Surface Generation. Angewandte Chemie, 2017, 129, 12107-12110.	1.6	54
150	Edge magnetism impact on electrical conductance and thermoelectric properties of graphenelike nanoribbons. Physical Review B, 2017, 96, .	1.1	23
151	On-Surface Annulation Reaction Cascade for the Selective Synthesis of Diindenopyrene. ACS Nano, 2017, 11, 12419-12425.	7.3	18
152	In Situ Electron Driven Carbon Nanopillar-Fullerene Transformation through Cr Atom Mediation. Nano Letters, 2017, 17, 4725-4732.	4.5	13
153	Gap engineering for improved control of memristor nanosensors. , 2017, , .		0
154	A Self Energy Model of Dephasing in Molecular Junctions. Journal of Physical Chemistry C, 2016, 120, 16383-16392.	1.5	12
155	Single-molecule electronics: Cooling individual vibrational modes by the tunneling current. Journal of Chemical Physics, 2016, 144, 114310.	1.2	13
156	The modular approach enables a fullyab initiosimulation of the contacts between 3D and 2D materials. Journal of Physics Condensed Matter, 2016, 28, 395303.	0.7	6
157	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. Scientific Reports, 2016, 6, 22524.	1.6	2
158	Reusability of photocatalytic TiO2 and ZnO nanoparticles immobilized in poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (	3.1	122
159	Integration of Carbon Nanotubes in Silicon Strip and Slot Waveguide Micro-Ring Resonators. IEEE Nanotechnology Magazine, 2016, 15, 583-589.	1.1	10
160	From Fluorine to Fluoreneâ€"A Route to Thermally Stable azaâ€BODIPYs for Organic Solar Cell Application. Advanced Electronic Materials, 2016, 2, 1600152.	2.6	26
161	Anisotropic Thermoelectric Response in Two-Dimensional Puckered Structures. Journal of Physical Chemistry C, 2016, 120, 18841-18849.	1.5	84
162	Application of silicene, germanene and stanene for Na or Li ion storage: A theoretical investigation. Electrochimica Acta, 2016, 213, 865-870.	2.6	245

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163	Thermoelectric properties of nanocarbons: Atomistic modeling. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 591-602.	0.8	4
164	Synthesis of NBN-Type Zigzag-Edged Polycyclic Aromatic Hydrocarbons: 1,9-Diaza-9a-boraphenalene as a Structural Motif. Journal of the American Chemical Society, 2016, 138, 11606-11615.	6.6	121
165	Confined Catalytic Janus Swimmers in a Crowded Channel: Geometryâ€Driven Rectification Transients and Directional Locking. Small, 2016, 12, 5882-5890.	5.2	34
166	Compact Nanowire Sensors Probe Microdroplets. Nano Letters, 2016, 16, 4991-5000.	4.5	37
167	Influence of organic ligands on the line shape of the Kondo resonance. Physical Review B, 2016, 93, .	1.1	7
168	Efficiency Drop in Green<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>InGaN</mml:mi><mml:mo>/</mml:mo><mml:mi>GaN</mml:mi></mml:mrow></mml:math>Ligh Emitting Diodes: The Role of Random Alloy Fluctuations. Physical Review Letters, 2016, 116, 027401.	2.9	327
169	Microswimmers: Confined Catalytic Janus Swimmers in a Crowded Channel: Geometry-Driven Rectification Transients and Directional Locking (Small 42/2016). Small, 2016, 12, 5912-5912.	5.2	0
170	Probing Silicaâ€“Biomolecule Interactions by Solid-State NMR and Molecular Dynamics Simulations. Langmuir, 2016, 32, 11698-11705.	1.6	13
171	High-Performance Three-Dimensional Tubular Nanomembrane Sensor for DNA Detection. Nano Letters, 2016, 16, 4288-4296.	4.5	78
172	Tetracene Formation by On-Surface Reduction. ACS Nano, 2016, 10, 4538-4542.	7.3	60
173	Role of Ferroelectric Nanodomains in the Transport Properties of Perovskite Solar Cells. Nano Letters, 2016, 16, 988-992.	4.5	75
174	Influence of random alloy fluctuations in InGaN/GaN quantum wells on LED efficiency. , 2015, , .		4
175	Enhanced thermoelectric figure of merit in polycrystalline carbon nanostructures. Physical Review B, 2015, 92, .	1.1	21
176	Electron transport in extended carbon-nanotube/metal contacts:Ab initiobased Green function method. Physical Review B, 2015, 91, .	1.1	16
177	Quantum interference based Boolean gates in dangling bond loops on Si(100):H surfaces. Scientific Reports, 2015, 5, 14136.	1.6	11
178	Monitoring microbial metabolites using an inductively coupled resonance circuit. Scientific Reports, 2015, 5, 12878.	1.6	16
179	Photoassisted transport in silicon dangling bond wires. Applied Physics Letters, 2015, 107, 203109.	1.5	4
180	Atomic level simulation of permittivity of oxidized ultra-thin Si channels. , 2015, , .		0

#	Article	IF	Citations
181	Lightâ€fieldâ€characterization in a continuous hydrogenâ€producing photobioreactor by optical simulation and computational fluid dynamics. Biotechnology and Bioengineering, 2015, 112, 2439-2449.	1.7	27
182	Influence of side groups on the performance of infrared absorbing azaâ€BODIPY organic solar cells. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2747-2753.	0.8	35
183	Impact of ultrasonic dispersion on the photocatalytic activity of titania aggregates. Beilstein Journal of Nanotechnology, 2015, 6, 2423-2430.	1.5	11
184	Atomistic simulation of GaAs/AlGaAs quantum dot/ring nanostructures. , 2015, , .		1
185	Imperceptible sensorics for medical monitoring. , 2015, , .		1
186	Optoelectronic switching of nanowire-based hybrid organic/oxide/semiconductor field-effect transistors. Nano Research, 2015, 8, 1229-1240.	5.8	32
187	Materials Meets Concepts in Moleculeâ€Based Electronics. Advanced Functional Materials, 2015, 25, 1933-1954.	7.8	47
188	Scaling and Graphical Transport-Map Analysis of Ambipolar Schottky-Barrier Thin-Film Transistors Based on a Parallel Array of Si Nanowires. Nano Letters, 2015, 15, 4578-4584.	4.5	31
189	Contact effects and quantum interference in engineered dangling bond loops on silicon surfaces. Nanoscale, 2015, 7, 13967-13973.	2.8	8
190	Interplay between Mechanical and Electronic Degrees of Freedom in Ï€-Stacked Molecular Junctions: From Single Molecules to Mesoscopic Nanoparticle Networks. Journal of Physical Chemistry C, 2015, 119, 6344-6355.	1.5	11
191	Light Weight and Flexible Highâ€Performance Diagnostic Platform. Advanced Healthcare Materials, 2015, 4, 1517-1525.	3.9	58
192	A comprehensive study of popular eigenvalue methods employed for quantum calculation of energy eigenstates in nanostructures using GPUs. Journal of Computational Electronics, 2015, 14, 593-603.	1.3	5
193	Inter-dot strain field effect on the optoelectronic properties of realistic InP lateral quantum-dot molecules. Journal of Applied Physics, 2015, 117, 094306.	1.1	12
194	Modeling of Solvent Effects in the Electrical Response of Ï€-Stacked Molecular Junctions. Journal of Physical Chemistry C, 2015, 119, 20201-20209.	1.5	4
195	Permittivity of Oxidized Ultra-Thin Silicon Films From Atomistic Simulations. IEEE Electron Device Letters, 2015, 36, 1076-1078.	2.2	28
196	Switchable Negative Differential Resistance Induced by Quantum Interference Effects in Porphyrin-based Molecular Junctions. Journal of Physical Chemistry Letters, 2015, 6, 3950-3955.	2.1	26
197	Thermoelectric properties of functionalized graphene grain boundaries. Journal of Self-Assembly and Molecular Electronics (SAME), 2015, 2015, 1-20.	0.0	13
198	Package characterization of FET-based biochemical sensors. , 2014, , .		1

#	Article	IF	Citations
199	Effect of alloy fluctuations in InGaN/GaN quantum wells on optical emission strength. , 2014, , .		10
200	IETS and quantum interference: Propensity rules in the presence of an interference feature. Journal of Chemical Physics, 2014, 141, 124119.	1.2	20
201	Innovative Molecular Design for a Volume Oriented Component Diagnostic: Modified Magnetic Nanoparticles on High Performance Yarns for Smart Textiles. Advanced Engineering Materials, 2014, 16, 1276-1283.	1.6	1
202	Realistic models of quantum-dot heterostructures. , 2014, , .		0
203	Model of a realistic InP surface quantum dot extrapolated from atomic force microscopy results. Nanotechnology, 2014, 25, 195201.	1.3	25
204	Schottky barrier-based silicon nanowire pH sensor with live sensitivity control. Nano Research, 2014, 7, 263-271.	5.8	45
205	Unveiling the Atomic Structure of Singleâ€Wall Boron Nanotubes. Advanced Functional Materials, 2014, 24, 4127-4134.	7.8	29
206	Ionic effects on the transport characteristics of nanowire-based FETs in a liquid environment. Nano Research, 2014, 7, 380-389.	5.8	12
207	Atomistic simulations of InGaN/GaN random alloy quantum well LEDs. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 632-634.	0.8	15
208	Quantum coherence of bulk electrons on metals revealed by scanning tunneling spectroscopy. Physical Review B, 2014, 89, .	1.1	1
209	Atomistic simulation of random alloy fluctuations in InGaN/GaN nanowires. , 2014, , .		0
210	Dynamic Effects on the Charge Transport in an Organic Near-Infrared Absorber Material. Journal of Physical Chemistry C, 2014, 118, 6537-6547.	1.5	15
211	Mechanical properties of polycrystalline boron-nitride nanosheets. RSC Advances, 2014, 4, 19137-19143.	1.7	90
212	Accelerating atomistic calculations of quantum energy eigenstates on graphic cards. Computer Physics Communications, 2014, 185, 2510-2518.	3.0	6
213	A bottom-up route to enhance thermoelectric figures of merit in graphene nanoribbons. Scientific Reports, 2013, 3, 1228.	1.6	117
214	Parallel arrays of Schottky barrier nanowire field effect transistors: Nanoscopic effects for macroscopic current output. Nano Research, 2013, 6, 381-388.	5.8	55
215	Combined effect of strain and defects on the conductance of graphene nanoribbons. Physical Review B, 2013, 88, .	1.1	34
216	Quantification of curvature effects in boron and carbon nanotubes: Band structures and ballistic current. Physical Review B, 2013, 87, .	1.1	9

#	Article	IF	Citations
217	Low-Energy Conformational Gating in Ï€-Conjugated Molecular Junctions. Journal of Physical Chemistry Letters, 2013, 4, 4192-4195.	2.1	11
218	Coupling atomistic and continuous media models for electronic device simulation. Journal of Computational Electronics, 2013, 12, 553-562.	1.3	14
219	Effects of Al-doping on the properties of Liâ€“Mnâ€“Niâ€“O cathode materials for Li-ion batteries: an ab initio study. Journal of Materials Chemistry A, 2013, 1, 9273.	5.2	84
220	A parabolic model to control quantum interference in T-shaped molecular junctions. Physical Chemistry Chemical Physics, 2013, 15, 13951.	1.3	25
221	Simulation of random alloy effects in InGaN/GaN LEDs. , 2013, , .		1
222	Modeling charge transport in DNA using multiâ€scale methods. Physica Status Solidi (B): Basic Research, 2013, 250, 2277-2287.	0.7	26
223	Understanding the catalyst-free transformation of amorphous carbon into graphene by current-induced annealing. Scientific Reports, 2013, 3, .	1.6	82
224	Atomistic Modeling of Charge Transport across a Carbon Nanotubeâ€“Polyethylene Junction. Journal of Physical Chemistry C, 2013, 117, 8020-8027.	1.5	17
225	Bottom-up synthesis of ultrathin straight platinum nanowires: Electric field impact. Nano Research, 2013, 6, 303-311.	5.8	21
226	Model of a GaAs Quantum Dot Embedded in a Polymorph AlGaAs Nanowire. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1-9.	1.9	16
227	Channel length dependent sensor response of Schottky-barrier FET pH sensors. , 2013, , .		3
228	A novel electrochemical synthesis route for copper nanowire formation. , 2013, , .		0
229	Strong Overtones Modes in Inelastic Electron Tunneling Spectroscopy with Cross-Conjugated Molecules: A Prediction from Theory. ACS Nano, 2013, 7, 9183-9194.	7.3	36
230	Silicon nanowires â€“ a versatile technology platform. Physica Status Solidi - Rapid Research Letters, 2013, 7, 793-799.	1.2	61
231	Heat Dissipation in Molecular Junctions: Linking Molecules to Macroscopic Contacts. Advances in Atom and Single Molecule Machines, 2013, , 97-106.	0.0	0
232	Nucleobase adsorbed at graphene devices: Enhance bio-sensorics. Applied Physics Letters, 2012, 100, 063101.	1.5	45
233	SCC-DFTB Parametrization for Boron and Boranes. Journal of Chemical Theory and Computation, 2012, 8, 1153-1163.	2.3	26
234	Optoelectronic properties of nanocolumnar InGaN/GaN quantum disk LEDs. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1315-1319.	0.8	0

#	Article	IF	Citations
235	Disorder and dephasing effects on electron transport through conjugated molecular wires in molecular junctions. Physical Review B, 2012, 85, .	1.1	48
236	Computing Raman and infrared wavenumbers of nanostructures: application to silicon nanowires. Journal of Raman Spectroscopy, 2012, 43, 1214-1220.	1.2	2
237	Charge Migration in Organic Materials: Can Propagating Charges Affect the Key Physical Quantities Controlling Their Motion?. Israel Journal of Chemistry, 2012, 52, 452-460.	1.0	14
238	Atomistic simulation of InGaN/GaN quantum disk LEDs. Optical and Quantum Electronics, 2012, 44, 89-94.	1.5	9
239	Atomistic simulation of InGaN/GaN quantum disk LEDs. , 2011, , .		0
240	Efficient linear scaling method for computing the thermal conductivity of disordered materials. Physical Review B, 2011, 83, .	1.1	46
241	The Multiscale Paradigm in Electronic Device Simulation. IEEE Transactions on Electron Devices, 2011, 58, 1425-1432.	1.6	97
242	Comparison of continuum and atomistic methods for the analysis of InAs/GaAs quantum dots. , 2011, , .		2
243	Enhancing single-parameter quantum charge pumping in carbon-based devices. Applied Physics Letters, 2011, 99, 092102.	1.5	58
244	Simulation of Inelastic Scattering in Molecular Junctions: Application to Inelastic Electron Tunneling Spectroscopy and Dissipation Effects. Journal of Computational and Theoretical Nanoscience, 2010, 7, 2512-2526.	0.4	2
245	Enhanced Ï€-Ï€ interactions between a C60 fullerene and a buckle bend on a double-walled carbon nanotube. Nano Research, 2010, 3, 92-97.	5.8	16
246	Concurrent multiscale simulation of electronic devices. Journal of Computational Electronics, 2010, 9, 262-268.	1.3	3
247	Calculation of optical properties of a quantum dot embedded in a GaN/AlGaN nanocolumn. Superlattices and Microstructures, 2010, 47, 123-128.	1.4	3
248	Heating and cooling mechanisms in single-molecule junctions. Physical Review B, 2010, 81, .	1.1	37
249	Point defect scattering in silicon nanowires. , 2010, , .		0
250	Phonon transport in large scale carbon-based disordered materials: Implementation of an efficient order-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>and real-space Kubo methodology. Physical Review B, 2010, 82, .	1.1	41
251	Optoelectronic and transport properties of nanocolumnar InGaN/GaN quantum disk LEDs. Proceedings of SPIE, 2010, , .	0.8	3
252	Handshaking multiscale thermal model of nanostructured devices. , 2010, , .		1

#	Article	IF	Citations
253	Multiscale-Multiphysics Simulation of Nanostructured Devices: the TiberCAD Project. , 2009, , .		0
254	Combined density functional theory and Landauer approach for hole transfer in DNA along classical molecular dynamics trajectories. Journal of Chemical Physics, 2009, 130, 215104.	1.2	78
255	Coupling atomistic and finite element approaches for the simulation of optoelectronic devices. Optical and Quantum Electronics, 2009, 41, 671-679.	1.5	7
256	Silicon-based molecular switch junctions. Nano Research, 2009, 2, 648-659.	5.8	32
257	Controlling the conductance and noise of driven carbon-based Fabryâ€“PÃ©rot devices. Applied Physics Letters, 2009, 94, .	1.5	52
258	Dye Solar Cell Simulations Using Finite Element Method. , 2009, , .		2
259	Spin-valve effect in zigzag graphene nanoribbons by defect engineering. Physical Review B, 2009, 80, .	1.1	56
260	Simulations of Optical Properties of a GaN Quantum Dot Embedded in a AlGaN Nanocolumn within a Mixed FEM/atomistic Method. , 2009, , .		1
261	TiberCAD: towards multiscale simulation of optoelectronic devices. Optical and Quantum Electronics, 2008, 40, 1077-1083.	1.5	25
262	Multiscale simulation of MOS systems based on high-Îº oxides. Journal of Computational Electronics, 2008, 7, 398-402.	1.3	9
263	Joule heating in molecular tunnel junctions: application to C60. Journal of Computational Electronics, 2008, 7, 384-389.	1.3	6
264	Quantum transport through STM-lifted single PTCDA molecules. Applied Physics A: Materials Science and Processing, 2008, 93, 335-343.	1.1	18
265	Charge transport in disordered graphene-based low dimensional materials. Nano Research, 2008, 1, 361-394.	5.8	319
266	Efficient Calculation of Charge-Transfer Matrix Elements for Hole Transfer in DNA. Journal of Physical Chemistry B, 2008, 112, 7937-7947.	1.2	150
267	Electronâ€“phonon scattering in molecular electronics: from inelastic electron tunnelling spectroscopy to heating effects. New Journal of Physics, 2008, 10, 065020.	1.2	24
268	Modeling extended contacts for nanotube and graphene devices. Physical Review B, 2008, 77, .	1.1	71
269	Effective Models for Charge Transport in DNA Nanowires. , 2008, , 107-119.		2
270	Vibrational modes and low-temperature thermal properties of graphene and carbon nanotubes: Minimal force-constant model. Physical Review B, 2008, 78, .	1.1	117

#	Article	IF	Citations
271	Electronic and transport properties of contacts between molybdenum sulfide nanowires and gold electrodes. Applied Physics Letters, 2008, 93, .	1.5	11
272	Resonant Electron Heating and Molecular Phonon Cooling in Single<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>60</mml:mn></mml:msub></mml:math>Junctions. Physical Review Letters, 2008, 100, 136801.	2.9	120
273	Electronic and transport properties of GaN/AlGaN quantum dot-based p-i-n diodes. , 2008, , .		0
274	Non-equilibrium Green's functions in density functional tight binding: method and applications. New Journal of Physics, 2008, 10, 065022.	1.2	111
275	TiberCAD: Towards multiscale simulation of optoelectronic devices. , 2008, , .		2
276	Coupling of molecular vibrons with contact phonon reservoirs. Journal of Physics Condensed Matter, 2007, 19, 215207.	0.7	18
277	Molecular junctions in the Coulomb blockade regime: Rectification and nesting. Physical Review B, 2007, 76, .	1.1	38
278	Theory of heat dissipation in molecular electronics. Physical Review B, 2007, 75, .	1.1	88
279	A priorimethod for propensity rules for inelastic electron tunneling spectroscopy of single-molecule conduction. Physical Review B, 2007, 75, .	1.1	80
280	Chapter 8 The gDFTB tool for molecular electronics. Theoretical and Computational Chemistry, 2007, 17, 205-232.	0.2	2
281	Modeling of Dissipative Transport in Molecular Systems. , 2007, , .		0
282	DFT Modeling of Bulk-Modulated Carbon Nanotube Field-Effect Transistors. IEEE Nanotechnology Magazine, 2007, 6, 13-21.	1.1	14
283	The Green's Function Density Functional Tight-Binding (gDFTB) Method for Molecular Electronic Conductionâ€. Journal of Physical Chemistry A, 2007, 111, 5692-5702.	1.1	32
284	Rectification effects in coherent transport through single molecules. Surface Science, 2007, 601, 4109-4112.	0.8	5
285	Tuning the conductance of a molecular switch. Nature Nanotechnology, 2007, 2, 176-179.	15.6	188
286	Atomistic Modeling of Gate-All-Around Si-Nanowire Field-Effect Transistors. IEEE Transactions on Electron Devices, 2007, 54, 3159-3167.	1.6	16
287	The simulation of molecular and organic devices: a critical review and look at future developments. Applied Physics A: Materials Science and Processing, 2007, 87, 593-598.	1.1	7
288	Quasiparticle correction for electronic transport in molecular wires. Journal of Computational Electronics, 2007, 6, 345-348.	1.3	6

#	Article	IF	Citations
289	Heat dissipation and non-equilibrium phonon distributions in molecular devices. Journal of Computational Electronics, 2007, 6, 335-339.	1.3	2
290	Electronic and transport properties of silicon nanowires. Journal of Computational Electronics, 2007, 6, 329-333.	1.3	32
291	Tunneling Properties of MOS Systems Based on High-k Oxides. , 2007, , 153-156.		1
292	Efficient Greenâ€™s Function Algorithms for Atomistic Modeling of Si Nanowire FETs. , 2007, , 325-328.		2
293	Molecular Origins of Conduction Channels Observed in Shot-Noise Measurements. Nano Letters, 2006, 6, 2431-2437.	4.5	42
294	Introducing Molecular Electronics: A Brief Overview. , 2006, , 1-10.		14
295	Tight-Binding DFT for Molecular Electronics (gDFTB). , 2006, , 153-184.		5
296	Incoherent tunneling and heat dissipation in molecular bridges. Journal of Physics: Conference Series, 2006, 35, 349-356.	0.3	0
297	Modeling of carbon nanotube-based devices: from nanoFETs to THz emitters. , 2006, , .		4
298	One-dimensional screening effects in bulk-modulated carbon nanotube transistors. Journal of Computational Electronics, 2006, 5, 97-101.	1.3	3
299	The symmetry of single-molecule conduction. Journal of Chemical Physics, 2006, 125, 184702.	1.2	33
300	Understanding the inelastic electron-tunneling spectra of alkanedithiols on gold. Journal of Chemical Physics, 2006, 124, 094704.	1.2	103
301	Scaling of the conductance in gold nanotubes. Physical Review B, 2006, 74, .	1.1	15
302	Contact Dependence of Carrier Injection in Carbon Nanotubes: AnAbÂInitioStudy. Physical Review Letters, 2006, 96, 076802.	2.9	194
303	DNA Conduction: The Issue of Static Disorder, Dynamic Fluctuations and Environmental Effects. , 2006, , 433-464.		3
304	Simulations of Inelastic Tunnelling in Molecular Bridges. Springer Proceedings in Physics, 2006, , 183-186.	0.1	2
305	Vibrational effects in the linear conductance of carbon nanotubes. Europhysics Letters, 2005, 71, 438-444.	0.7	38
306	Quantum Capacitance Effects in Carbon Nanotube Field-Effect Devices. Journal of Computational Electronics, 2005, 4, 51-55.	1.3	5

#	Article	IF	Citations
307	Atomistic Simulation of the Electronic Transport in Organic Nanostructures: Electron-Phonon and Electron-Electron Interactions. Journal of Computational Electronics, 2005, 4, 79-82.	1.3	8
308	Negative quantum capacitance of gated carbon nanotubes. Physical Review B, 2005, 72, .	1.1	29
309	Electronic transport in molecular devices: the role of coherent and incoherent electronâ€“phonon scattering. Semiconductor Science and Technology, 2004, 19, S357-S361.	1.0	7
310	Atomistic theory of transport in organic and inorganic nanostructures. Reports on Progress in Physics, 2004, 67, 1497-1561.	8.1	279
311	Organic/metal interfaces: an ab initio study of their structural and electronic properties. Surface Science, 2004, 566-568, 628-632.	0.8	7
312	IN-PLANE RESISTANCE OF AN ULTRA THIN GOLD FILM: INFLUENCE OF A COPPER PHTHALOCYANINE OVERLAYER. Molecular Crystals and Liquid Crystals, 2004, 413, 81-90.	0.4	0
313	The Influence of Thermal Fluctuations on the Electronic Transport of Alkeno-Thiolates. IEEE Nanotechnology Magazine, 2004, 3, 353-357.	1.1	5
314	Incoherent Electronâ^'Phonon Scattering in Octanethiols. Nano Letters, 2004, 4, 2109-2114.	4.5	106
315	Tight-Binding Description of the STM Image of Molecular Chains. Israel Journal of Chemistry, 2004, 44, 133-143.	1.0	13
316	Coherent Phonon Scattering in Molecular Devices. Journal of Computational Electronics, 2003, 2, 251-256.	1.3	4
317	Schottky Barrier Height at Organic/Metal Junctions from First-Principles. Journal of Computational Electronics, 2003, 2, 407-411.	1.3	2
318	Electronic properties of hybrid metal-discotic liquid crystal nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 654-658.	1.3	3
319	Electronic transport properties of molecular devices. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 19, 139-144.	1.3	13
320	Tailorable AcceptorC60â^'nBnand DonorC60â^'mNmPairs for Molecular Electronics. Physical Review Letters, 2003, 90, 206602.	2.9	73
321	Modulation of the electronic transport properties of carbon nanotubes with adsorbed molecules. Synthetic Metals, 2003, 138, 89-93.	2.1	12
322	Schottky barrier height at an organic/metal junction: A first-principles study of PTCDA/X(X=Al,Ag)contacts. Physical Review B, 2003, 68, .	1.1	43
323	Role of thermal vibrations in molecular wire conduction. Physical Review B, 2003, 68, .	1.1	28
324	Charge carrier mobility in highly ordered smectic and discotic mesophases. , 2003, , .		2

#	Article	IF	Citations
325	Influence of the electron-phonon interactions on the transport properties at the molecular scale. , 2003, 5219, 109.		0
326	Density functional tight-binding for self-consistent computation of the transport properties of molecular electronic devices. , 2003, 5219, 25.		1
327	Charge-carrier mobilities in binary mixtures of discotic triphenylene derivatives as a function of temperature. Physical Review B, 2002, 65, .	1.1	46
328	Interactions of self-organised discotic liquid crystals with ultrathin metal films. Materials Science and Technology, 2002, 18, 729-732.	0.8	1
329	Photoconductive transients and one-dimensional charge carrier dynamics in discotic liquid crystals. Physical Review B, 2002, 65, .	1.1	38
330	The Role of Contacts in Molecular Electronics. , 2002, , 133-149.		20
331	Electronic Transport in Self-organised Molecular Nanostructured Devices. VLSI Design, 2001, 13, 305-309.	0.5	0
332	Conductivity of two-dimensional metalâ€“organic hybrid films. Microelectronic Engineering, 2000, 51-52, 633-644.	1.1	2
333	Studies of two-wave mixing of very broad-spectrum laser light in BaTiO_3. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 917.	0.9	9
334	Optimum signal polarization in two-wave mixing with incoherent erasure of the fanning process. Journal of Modern Optics, 1998, 45, 2339-2344.	0.6	0
335	Electron-phonon scattering in molecular wires. , 0, , .		0
336	Simulation of carbon nanotube field-effect devices. , 0, , .		0
337	Multicolor Nanopatterning of Two-Dimensional Nanoplatelets. , 0, , .		0
338	Significant Increase of Electron Thermal Conductivity in Dirac Semimetal Beryllonitrene by Doping Beyond Van Hove Singularity. Advanced Functional Materials, 0, , 2111556.	7.8	14