

Gianaurelio Cuniberti

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5542012/gianaurelio-cuniberti-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

475
papers

13,692
citations

62
h-index

92
g-index

506
ext. papers

15,664
ext. citations

6.1
avg, IF

6.76
L-index

#	Paper	IF	Citations
475	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. <i>Materials Advances</i> , 2022 , 3, 1497-1505	3.3	5
474	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene.. <i>Nanotechnology</i> , 2022 ,	3.4	5
473	Continuous monitoring of molecular biomarkers in microfluidic devices.. <i>Progress in Molecular Biology and Translational Science</i> , 2022 , 187, 295-333	4	
472	A nanographene disk rotating a single molecule gear on a Cu(111) surface.. <i>Nanotechnology</i> , 2022 ,	3.4	1
471	Effect of lubricants on the rotational transmission between solid-state gears.. <i>Beilstein Journal of Nanotechnology</i> , 2022 , 13, 54-62	3	1
470	Nanosensors in clinical development of CAR-T cell immunotherapy.. <i>Biosensors and Bioelectronics</i> , 2022 , 206, 114124	11.8	0
469	On-water surface synthesis of charged two-dimensional polymer single crystals via the irreversible Katritzky reaction 2022 , 1, 69-76		3
468	Sniffbots to the Rescue IFog Services for a Gas-Sniffing Immersive Robot Collective. <i>Lecture Notes in Computer Science</i> , 2022 , 3-28	0.9	
467	Exploring the similarity of single-layer covalent organic frameworks using electronic structure calculations.. <i>RSC Advances</i> , 2022 , 12, 12283-12291	3.7	1
466	On-Surface Formation of Cyano-Vinylene Linked Chains by Knoevenagel Condensation. <i>Chemistry - A European Journal</i> , 2021 , 27, 17336-17340	4.8	1
465	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. <i>ACS Sensors</i> , 2021 , 6, 3841-3881	9.2	7
464	Multicolor Patterning of 2D Semiconductor Nanoplatelets. <i>ACS Nano</i> , 2021 ,	16.7	8
463	Nanoscale Phononic Analog of the Ranque-Hilsch Vortex Tube. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
462	Multi-walled carbon nanotube dispersion methodologies in alkaline media and their influence on mechanical reinforcement of alkali-activated nanocomposites. <i>Composites Part B: Engineering</i> , 2021 , 209, 108559	10	4
461	Impact of surface charge on the motion of light-activated Janus micromotors. <i>European Physical Journal E</i> , 2021 , 44, 39	1.5	3
460	Thermoelectric Energy Harvesting from Single-Walled Carbon Nanotube Alkali-Activated Nanocomposites Produced from Industrial Waste Materials. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
459	Synthesis of Wafer-Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000744	6.8	16

458	Olfactory Perception in Relation to the Physicochemical Odor Space. <i>Brain Sciences</i> , 2021 , 11,	3.4	2
457	Highly Sensitive Silicon Nanowire Biosensor Devices for the Investigation of UniCAR Platform in Immunotherapy. <i>Engineering Proceedings</i> , 2021 , 6, 20	0.5	
456	Detection of C-Reactive Protein by Liquid-Gated Carbon Nanotube Field Effect Transistors (LG-CNTFET): A Promising Tool against Antibiotic Resistance. <i>Engineering Proceedings</i> , 2021 , 6, 15	0.5	
455	ZnO Low-Dimensional Thin Films Used as a Potential Material for Water Treatment. <i>Engineering Proceedings</i> , 2021 , 6, 10	0.5	
454	Supramolecular Functionalized Pristine Graphene Utilizing a Bio-Compatible Stabilizer towards Ultra-Sensitive Ammonia Detection. <i>Engineering Proceedings</i> , 2021 , 6, 14	0.5	
453	Determining the Diffusion Coefficient of Lithium Insertion Cathodes from GITT measurements: Theoretical Analysis for low Temperatures*. <i>ChemPhysChem</i> , 2021 , 22, 885-893	3.2	7
452	CuO-Doped Alginate for Simple Electrochemical Vitamin C Sensing in Sweat. <i>Engineering Proceedings</i> , 2021 , 6, 16	0.5	
451	Multiscale Modeling Strategy of 2D Covalent Organic Frameworks Confined at an Air-Water Interface. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26411-26420	9.5	2
450	Hemocompatible Electrochemical Sensors for Continuous Monitoring of Blood Parameters. <i>Engineering Proceedings</i> , 2021 , 6, 19	0.5	1
449	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. <i>Nano-Micro Letters</i> , 2021 , 13, 143	19.5	18
448	An Atomistic Study of the Thermoelectric Signatures of CNT Peapods. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13721-13731	3.8	2
447	Highly sensitive room temperature ammonia gas sensor using pristine graphene: The role of biocompatible stabilizer. <i>Carbon</i> , 2021 , 173, 262-270	10.4	15
446	Photocatalytic degradation of ciprofloxacin in water at nano-ZnO prepared by pulse alternating current electrochemical synthesis. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101809	6.7	7
445	Predicting the bulk modulus of single-layer covalent organic frameworks with square-lattice topology from molecular building-block properties. <i>Nanoscale</i> , 2021 , 13, 1077-1085	7.7	3
444	Effects of external mechanical or magnetic fields and defects on electronic and transport properties of graphene. <i>Materials Today: Proceedings</i> , 2021 , 35, 523-529	1.4	3
443	Coexistence of fluorescent strains in millifluidic droplet reactors. <i>Lab on A Chip</i> , 2021 , 21, 1492-1502	7.2	4
442	. <i>IEEE Access</i> , 2021 , 9, 59766-59782	3.5	0
441	Enhanced visible-light photodegradation of fluoroquinolone-based antibiotics and growth inhibition using Ag-TiO nanoparticles.. <i>RSC Advances</i> , 2021 , 11, 13980-13991	3.7	8

440	One-way rotation of a chemically anchored single molecule-rotor. <i>Nanoscale</i> , 2021 , 13, 16077-16083	7.7	3
439	Surface-Phonon-Induced Rotational Dissipation for Nanoscale Solid-State Gears. <i>Physical Review Applied</i> , 2021 , 15,	4.3	4
438	Theoretical Insight into High-Efficiency Triple-Junction Tandem Solar Cells via the Band Engineering of Antimony Chalcogenides. <i>Solar Rrl</i> , 2021 , 5, 2000800	7.1	29
437	Describing chain-like assembly of ethoxygroup-functionalized organic molecules on Au(111) using high-throughput simulations. <i>Scientific Reports</i> , 2021 , 11, 14649	4.9	
436	Nanoelectromechanical rotary current rectifier. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
435	The role of structural symmetry on proton tautomerization: A DFTB/Meta-Dynamics computational study. <i>Chemical Physics</i> , 2021 , 548, 111222	2.3	
434	Selective and self-validating breath-level detection of hydrogen sulfide in humid air by gold nanoparticle-functionalized nanotube arrays. <i>Nano Research</i> , 2021 , 1-10	10	4
433	A combined experimental and theoretical study of 1,4-bis(phenylethynyl)-2,5-bis(ethoxy)benzene adsorption on Au(111). <i>Surface Science</i> , 2021 , 712, 121877	1.8	2
432	Investigating a Combined Stochastic Nucleation and Molecular Dynamics-Based Equilibration Approach for Constructing Large-Scale Polycrystalline Films. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 1266-1275	6.4	
431	STM induced manipulation of azulene-based molecules and nanostructures: the role of the dipole moment. <i>Nanoscale</i> , 2020 , 12, 24471-24476	7.7	4
430	Continuum modelling of structure formation of biosilica patterns in diatoms. <i>BMC Materials</i> , 2020 , 2,	6.7	1
429	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. <i>JPhys Materials</i> , 2020 , 3, 034009	4.2	20
428	Effective Hamiltonian model for helically constrained quantum systems within adiabatic perturbation theory: Application to the chirality-induced spin selectivity (CISS) effect. <i>Journal of Chemical Physics</i> , 2020 , 152, 214105	3.9	13
427	In vitro characterization of osteoblast cells on polyelectrolyte multilayers containing detonation nanodiamonds. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 055026	3.5	
426	GITT Analysis of Lithium Insertion Cathodes for Determining the Lithium Diffusion Coefficient at Low Temperature: Challenges and Pitfalls. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 090546	3.9	54
425	Surface Modification of Silicon Nanowire Based Field Effect Transistors with Stimuli Responsive Polymer Brushes for Biosensing Applications. <i>Micromachines</i> , 2020 , 11,	3.3	8
424	Mechanical Transmission of Rotational Motion between Molecular-Scale Gears. <i>Physical Review Applied</i> , 2020 , 13,	4.3	11
423	Exploring the organic/organic interface in biosilica: atomistic modeling of polyamine and silica precursors aggregation behavior. <i>BMC Materials</i> , 2020 , 2,	6.7	2

422	Two-Dimensional Boronate Ester Covalent Organic Framework Thin Films with Large Single Crystalline Domains for a Neuromorphic Memory Device. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8218-8224	16.4	63
421	Boron-Doped Single-Walled Carbon Nanotubes with Enhanced Thermoelectric Power Factor for Flexible Thermoelectric Devices. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2556-2564	6.1	12
420	Enhanced Photocatalytic Activity of Au/TiO ₂ Nanoparticles against Ciprofloxacin. <i>Catalysts</i> , 2020 , 10, 234	4	21
419	Two-Dimensional Boronate Ester Covalent Organic Framework Thin Films with Large Single Crystalline Domains for a Neuromorphic Memory Device. <i>Angewandte Chemie</i> , 2020 , 132, 8295-8301	3.6	18
418	Nanosensors-Assisted Quantitative Analysis of Biochemical Processes in Droplets. <i>Micromachines</i> , 2020 , 11,	3.3	2
417	Modification of titanium implants using biofunctional nanodiamonds for enhanced antimicrobial properties. <i>Nanotechnology</i> , 2020 , 31, 205603	3.4	3
416	Anisotropic Exclusion Effect between Photocatalytic Ag/AgCl Janus Particles and Passive Beads in a Dense Colloidal Matrix. <i>Langmuir</i> , 2020 , 36, 7091-7099	4	8
415	Boron Doping of SWCNTs as a Way to Enhance the Thermoelectric Properties of Melt-Mixed Polypropylene/SWCNT Composites. <i>Energies</i> , 2020 , 13, 394	3.1	10
414	Design and Performance of Novel Self-Cleaning g-CN/PMMA/PUR Membranes. <i>Polymers</i> , 2020 , 12,	4.5	10
413	Mechanical Transmission of Rotation for Molecule Gears and Solid-State Gears. <i>Advances in Atom and Single Molecule Machines</i> , 2020 , 165-180	0	2
412	Intrinsic plasticity of silicon nanowire neurotransistors for dynamic memory and learning functions. <i>Nature Electronics</i> , 2020 , 3, 398-408	28.4	14
411	A zinc selective oxytocin based biosensor. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 155-160	7.3	6
410	Dodecacene Generated on Surface: Reopening of the Energy Gap. <i>ACS Nano</i> , 2020 , 14, 1011-1017	16.7	48
409	Synthese von Vinyl-verknüpften zweidimensionalen konjugierten Polymeren via Horner-Wadsworth-Emmons-Reaktion. <i>Angewandte Chemie</i> , 2020 , 132, 23827-23832	3.6	8
408	Comparative Studies of Light-Responsive Swimmers: Janus Nanorods versus Spherical Particles. <i>Langmuir</i> , 2020 , 36, 12504-12512	4	3
407	Nanosensor-Based Real-Time Monitoring of Stress Biomarkers in Human Saliva Using a Portable Measurement System. <i>ACS Sensors</i> , 2020 , 5, 4081-4091	9.2	10
406	Role of Exchange Interactions in the Magnetic Response and Intermolecular Recognition of Chiral Molecules. <i>Nano Letters</i> , 2020 , 20, 7077-7086	11.5	19
405	Nanocytometer for smart analysis of peripheral blood and acute myeloid leukemia: a pilot study. <i>Nano Letters</i> , 2020 , 20, 6572-6581	11.5	5

404	Transmitting Stepwise Rotation among Three Molecule-Gear on the Au(111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6892-6899	6.4	14
403	Inverse Solidification Induced by Active Janus Particles. <i>Advanced Functional Materials</i> , 2020 , 30, 20038515.6	5.6	9
402	Synthesis of Vinylene-Linked Two-Dimensional Conjugated Polymers via the Horner-Wadsworth-Emmons Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23620-23625	16.4	36
401	Interactions of Long-Chain Polyamines with Silica Studied by Molecular Dynamics Simulations and Solid-State NMR Spectroscopy. <i>Langmuir</i> , 2020 , 36, 11600-11609	4	2
400	Electrochemical detection of ascorbic acid in artificial sweat using a flexible alginate/CuO-modified electrode. <i>Mikrochimica Acta</i> , 2020 , 187, 520	5.8	16
399	Determination of the Entire Stent Surface Area by a New Analytical Method. <i>Materials</i> , 2020 , 13,	3.5	1
398	Two-Dimensional SiP, SiAs, GeP and GeAs as Promising Candidates for Photocatalytic Applications. <i>Coatings</i> , 2019 , 9, 522	2.9	16
397	Room temperature single-step synthesis of metal decorated boron-rich nanowires via laser ablation. <i>Nano Convergence</i> , 2019 , 6, 14	9.2	2
396	Engineering crystalline quasi-two-dimensional polyaniline thin film with enhanced electrical and chemiresistive sensing performances. <i>Nature Communications</i> , 2019 , 10, 4225	17.4	78
395	ITO Work Function Tunability by Polarizable Chromophore Monolayers. <i>Langmuir</i> , 2019 , 35, 2997-3004	4	6
394	Doping engineering of thermoelectric transport in BNC heteronanotubes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1904-1911	3.6	5
393	Current-induced rotations of molecular gears. <i>Journal of Physics Communications</i> , 2019 , 3, 025011	1.2	9
392	Photocatalytic Microporous Membrane against the Increasing Problem of Water Emerging Pollutants. <i>Materials</i> , 2019 , 12,	3.5	17
391	Quantitative analysis of BMP-2 derived peptide covalently grafted onto oxidized detonation nanodiamonds. <i>Carbon</i> , 2019 , 152, 740-745	10.4	3
390	Hybrid Silicon Nanowire Devices and Their Functional Diversity. <i>Advanced Science</i> , 2019 , 6, 1900522	13.6	26
389	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. <i>Nature Communications</i> , 2019 , 10, 2466	17.4	56
388	Exploring the write-in process in molecular quantum cellular automata: a combined modeling and first-principle approach. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 405502	1.8	1
387	Ammonia Plasma-Induced n-Type Doping of Semiconducting Carbon Nanotube Films: Thermoelectric Properties and Ambient Effects. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21807-21814	9.5	13

386	Electrochemically Exfoliated High-Quality 2H-MoS for Multiflake Thin Film Flexible Biosensors. <i>Small</i> , 2019 , 15, e1901265	11	40
385	Impact of device geometry on electron and phonon transport in graphene nanorings. <i>Physical Review B</i> , 2019 , 99,	3.3	4
384	Electron Transport through Self-Assembled Monolayers of Tripeptides. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9600-9608	3.8	9
383	Fully sp ² -Carbon-Linked Crystalline Two-Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. <i>Chemistry - A European Journal</i> , 2019 , 25, 6562-6568	4.8	28
382	Selective Transmission of Phonons in Molecular Junctions with Nanoscopic Thermal Baths. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9680-9687	3.8	7
381	Mapping Conformational Changes in a Self-Assembled Two-Dimensional Molecular Network by Statistical Analysis of Conductance Images. <i>Physical Review Applied</i> , 2019 , 11,	4.3	1
380	Immobilization of Detonation Nanodiamonds on Macroscopic Surfaces. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1064	2.6	2
379	Combined molecular dynamics and phase-field modelling of crack propagation in defective graphene. <i>Computational Materials Science</i> , 2019 , 163, 117-126	3.2	12
378	On-surface synthesis of nitrogen-doped nanographenes with 5-7 membered rings. <i>Chemical Communications</i> , 2019 , 55, 4731-4734	5.8	13
377	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. <i>Journal of Applied Physics</i> , 2019 , 126, 054302	2.5	27
376	S-layer protein-AuNP systems for the colorimetric detection of metal and metalloid ions in water. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 183, 110284	6	1
375	Stimulation of bone formation by monocyte-activator functionalized graphene oxide in vivo. <i>Nanoscale</i> , 2019 , 11, 19408-19421	7.7	18
374	Influence of Mesityl and Thiophene Peripheral Substituents on Surface Attachment, Redox Chemistry, and ORR Activity of Molecular Iron Porphyrin Catalysts on Electrodes. <i>Inorganic Chemistry</i> , 2019 , 58, 10637-10647	5.1	8
373	Green function, quasi-classical Langevin and Kubo-Greenwood methods in quantum thermal transport. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 273003	1.8	9
372	Quantum Phonon Transport in Nanomaterials: Combining Atomistic with Non-Equilibrium Green's Function Techniques. <i>Entropy</i> , 2019 , 21,	2.8	5
371	Direct Assembly and Metal-Ion Binding Properties of Oxytocin Monolayer on Gold Surfaces. <i>Langmuir</i> , 2019 , 35, 11114-11122	4	6
370	Recapitulating bone development events in a customised bioreactor through interplay of oxygen tension, medium pH, and systematic differentiation approaches. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 1672-1684	4.4	
369	Chirality-Induced Spin Selectivity in a Coarse-Grained Tight-Binding Model for Helicene. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 27230-27241	3.8	32

368	Spin-Polarized Electron Transmission in DNA-Like Systems. <i>Biomolecules</i> , 2019 , 10,	5.9	9
367	Thermal bridging of graphene nanosheets via covalent molecular junctions: A non-equilibrium Green's functions density functional tight-binding study. <i>Nano Research</i> , 2019 , 12, 791-799	10	19
366	Application of μ CT for the Determination of Total Surface Area of Stents 2019 ,		1
365	Stabilization of aqueous graphene dispersions utilizing a biocompatible dispersant: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24007-24016	3.6	7
364	Modeling of the Coadsorption of Chloride and Hydrogen Ions on Copper Electrode Surface. <i>Journal of the Electrochemical Society</i> , 2019 , 166, D3042-D3048	3.9	
363	Reusable Photocatalytic Optical Fibers for Underground, Deep-Sea, and Turbid Water Remediation. <i>Global Challenges</i> , 2018 , 2, 1700124	4.3	5
362	Insight into doping efficiency of organic semiconductors from the analysis of the density of states in n-doped C and ZnPc. <i>Nature Materials</i> , 2018 , 17, 439-444	27	72
361	Chirality-Dependent Electron Spin Filtering by Molecular Monolayers of Helicenes. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2025-2030	6.4	91
360	Time-dependent framework for energy and charge currents in nanoscale systems. <i>Chemical Physics</i> , 2018 , 514, 176-182	2.3	4
359	DFT study of interaction of additives with Cu(111) surface relevant to Cu electrodeposition. <i>Journal of Applied Electrochemistry</i> , 2018 , 48, 211-219	2.6	5
358	Unimolecular Logic Gate with Classical Input by Single Gold Atoms. <i>ACS Nano</i> , 2018 , 12, 1139-1145	16.7	19
357	Copper Electroplating with Polyethylene Glycol: Part II. Experimental Analysis and Determination of Model Parameters. <i>Journal of the Electrochemical Society</i> , 2018 , 165, D13-D22	3.9	7
356	First-Principle-Based Phonon Transport Properties of Nanoscale Graphene Grain Boundaries. <i>Advanced Science</i> , 2018 , 5, 1700365	13.6	16
355	A Dual-Stimuli-Responsive Sodium-Bromine Battery with Ultrahigh Energy Density. <i>Advanced Materials</i> , 2018 , 30, e1800028	24	46
354	Electronic Resonances and Gap Stabilization of Higher Acenes on a Gold Surface. <i>ACS Nano</i> , 2018 , 12, 8506-8511	16.7	28
353	Density Functional Tight Binding for Quantum Plasmonics. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19756-19766	3.8	14
352	Gating Hysteresis as an Indicator for Silicon Nanowire FET Biosensors. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 950	2.6	10
351	Immune Profiling of Polysaccharide Submicron Vesicles. <i>Biomacromolecules</i> , 2018 , 19, 3560-3571	6.9	4

350	Nanoscale Molecular Automata: From Materials to Architectures. <i>Natural Computing Series</i> , 2018 , 319-337	3.5	1
349	Atomistic Framework for Time-Dependent Thermal Transport. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21062-21068	3.8	1
348	Tuning the conductance of a molecular wire by the interplay of donor and acceptor units. <i>Nanoscale</i> , 2018 , 10, 17131-17139	7.7	2
347	Self-Assembled Two-Dimensional Supramolecular Networks Characterized by Scanning Tunneling Microscopy and Spectroscopy in Air and under Vacuum. <i>Langmuir</i> , 2018 , 34, 7698-7707	4	4
346	Plasmonic Biosensor Based on Vertical Arrays of Gold Nanoantennas. <i>ACS Sensors</i> , 2018 , 3, 1392-1400	9.2	25
345	Metal ion binding and tolerance of bacteria cells in view of sensor applications. <i>Journal of Sensors and Sensor Systems</i> , 2018 , 7, 433-441	1.6	1
344	Effect of Magnetic Zigzag Edges in Graphene-like Nanoribbons on the Thermoelectric Power Factor. <i>Acta Physica Polonica A</i> , 2018 , 133, 535-537	0.6	
343	Spin Dependent Conductance of a Quantum Dot Side attached to Topological Superconductors as a Probe of Majorana Fermion States. <i>Acta Physica Polonica A</i> , 2018 , 133, 552-554	0.6	
342	Toward Highly Sensitive and Energy Efficient Ammonia Gas Detection with Modified Single-Walled Carbon Nanotubes at Room Temperature. <i>ACS Sensors</i> , 2018 , 3, 79-86	9.2	73
341	Signal and Noise of Schottky-Junction Parallel Silicon Nanowire Transducers for Biochemical Sensing. <i>IEEE Sensors Journal</i> , 2018 , 18, 967-975	4	4
340	Ultrasensitive detection of Ebola matrix protein in a memristor mode. <i>Nano Research</i> , 2018 , 11, 1057-1068	6.8	23
339	First-principles investigation of Ag-, Co-, Cr-, Cu-, Fe-, Mn-, Ni-, Pd- and Rh-hexaaminobenzene 2D metal-organic frameworks. <i>Materials Today Energy</i> , 2018 , 10, 336-342	7	15
338	Influence of defect-induced deformations on electron transport in carbon nanotubes. <i>Journal of Physics Communications</i> , 2018 , 2, 115023	1.2	4
337	High-Motility Visible Light-Driven Ag/AgCl Janus Micromotors. <i>Small</i> , 2018 , 14, e1803613	11	42
336	Visible Light Actuated Efficient Exclusion Between Plasmonic Ag/AgCl Micromotors and Passive Beads. <i>Small</i> , 2018 , 14, e1802537	11	24
335	Diversification of Device Platforms by Molecular Layers: Hybrid Sensing Platforms, Monolayer Doping, and Modeling. <i>Langmuir</i> , 2018 , 34, 14103-14123	4	9
334	Polymerization driven monomer passage through monolayer chemical vapour deposition graphene. <i>Nature Communications</i> , 2018 , 9, 4051	17.4	9
333	Thermal Decoherence and Disorder Effects on Chiral-Induced Spin Selectivity. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5753-5758	6.4	18

332	Enhanced Magnetoresistance in Chiral Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5453-5459	6.4	51
331	Inducing the controlled rotation of single o-MeO-DMBI molecules anchored on Au(111). <i>Surface Science</i> , 2018 , 678, 177-182	1.8	19
330	Hexacene generated on passivated silicon. <i>Nanoscale</i> , 2018 , 10, 12582-12587	7.7	4
329	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2017 , 29, 1605254	24	73
328	Absorption Tails of Donor:C Blends Provide Insight into Thermally Activated Charge-Transfer Processes and Polaron Relaxation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1699-1704	16.4	55
327	Few-Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3014-3019	16.4	48
326	Competence-Based, Research-Related Lab Courses for Materials Modeling: The Case of Organic Photovoltaics. <i>Journal of Chemical Education</i> , 2017 , 94, 190-194	2.4	5
325	Persulfurated Coronene: A New Generation of "Sulflower". <i>Journal of the American Chemical Society</i> , 2017 , 139, 2168-2171	16.4	62
324	Coordination Polymer Framework Based On-Chip Micro-Supercapacitors with AC Line-Filtering Performance. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3920-3924	16.4	110
323	Spin-orbit coupling in nearly metallic chiral carbon nanotubes: a density-functional based study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8848-8853	3.6	7
322	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3280-3284	16.4	67
321	Developing a Customized Perfusion Bioreactor Prototype with Controlled Positional Variability in Oxygen Partial Pressure for Bone and Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2017 , 23, 286-297	2.9	14
320	Doping of graphene induced by boron/silicon substrate. <i>Nanotechnology</i> , 2017 , 28, 215701	3.4	9
319	Chemiresistive biosensors based on carbon nanotubes for label-free detection of DNA sequences derived from avian influenza virus H5N1. <i>Sensors and Actuators B: Chemical</i> , 2017 , 249, 691-699	8.5	37
318	Bipolar nitrogen-doped graphene frameworks as high-performance cathodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1588-1594	13	17
317	Tuning quantum electron and phonon transport in two-dimensional materials by strain engineering: a Green's function based study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 1487-1495	3.6	16
316	Electrical characterization of two-dimensional materials and their heterostructures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 198, 012002	0.4	5
315	Photocatalytic degradation of recalcitrant micropollutants by reusable Fe ₃ O ₄ /SiO ₂ /TiO ₂ particles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 345, 27-35	4.7	33

3 ¹⁴	Graphene or h-BN paraffin composite structures for the thermal management of Li-ion batteries: A multiscale investigation. <i>Applied Energy</i> , 2017 , 202, 323-334	10.7	105
3 ¹³	Tuning Near-Infrared Absorbing Donor Materials: A Study of Electronic, Optical, and Charge-Transport Properties of aza-BODIPYs. <i>Chemistry of Materials</i> , 2017 , 29, 5525-5536	9.6	21
3 ¹²	Polycyclic heteroaromatic hydrocarbons containing a benzoisindole core. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 847-852	5.2	23
3 ¹¹	Copper Electroplating with Polyethylene Glycol. <i>Journal of the Electrochemical Society</i> , 2017 , 164, D196-D203	5.2	18
3 ¹⁰	Metamorphosis in carbon network: From penta-graphene to biphenylene under uniaxial tension. <i>FlatChem</i> , 2017 , 1, 65-73	5.1	24
3 ⁰⁹	A structural insight into mechanical strength of graphene-like carbon and carbon nitride networks. <i>Nanotechnology</i> , 2017 , 28, 055707	3.4	28
3 ⁰⁸	Imaging the electronic structure of on-surface generated hexacene. <i>Chemical Communications</i> , 2017 , 53, 1583-1586	5.8	43
3 ⁰⁷	Negative Photoconductance in Heavily Doped Si Nanowire Field-Effect Transistors. <i>Nano Letters</i> , 2017 , 17, 6727-6734	11.5	44
3 ⁰⁶	Nanowire sensors monitor bacterial growth kinetics and response to antibiotics. <i>Lab on A Chip</i> , 2017 , 17, 4283-4293	7.2	34
3 ⁰⁵	In-depth electrical characterization of carrier transport in ambipolar Si-NW Schottky-barrier FETs. 2017 ,		1
3 ⁰⁴	Light-Induced Contraction/Expansion of 1D Photoswitchable Metallopolymer Monitored at the Solid-Liquid Interface. <i>Small</i> , 2017 , 13, 1701790	11	15
3 ⁰³	Enhancement of thermal transport properties of asymmetric Graphene/hBN nanoribbon heterojunctions by substrate engineering. <i>Carbon</i> , 2017 , 124, 642-650	10.4	19
3 ⁰²	Copper Induced Conformational Changes of Tripeptide Monolayer Based Impedimetric Biosensor. <i>Scientific Reports</i> , 2017 , 7, 9498	4.9	16
3 ⁰¹	In-Situ Stretching Patterned Graphene Nanoribbons in the Transmission Electron Microscope. <i>Scientific Reports</i> , 2017 , 7, 211	4.9	21
3 ⁰⁰	Decacene: On-Surface Generation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11945-11948	16.4	107
299	Exciton Binding Energy in Molecular Triads. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17088-17095	3.8	31
298	Decacene: On-Surface Generation. <i>Angewandte Chemie</i> , 2017 , 129, 12107-12110	3.6	45
297	Molecular and Ionic Dipole Effects on the Electronic Properties of Si-/SiO-Grafted Alkylamine Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44873-44879	9.5	9

296	Edge magnetism impact on electrical conductance and thermoelectric properties of graphenelike nanoribbons. <i>Physical Review B</i> , 2017 , 96,	3.3	14
295	On-Surface Annulation Reaction Cascade for the Selective Synthesis of Diindenopyrene. <i>ACS Nano</i> , 2017 , 11, 12419-12425	16.7	14
294	In Situ Electron Driven Carbon Nanopillar-Fullerene Transformation through Cr Atom Mediation. <i>Nano Letters</i> , 2017 , 17, 4725-4732	11.5	10
293	Emergence of Bloch oscillations in one-dimensional systems. <i>Physical Review B</i> , 2017 , 95,	3.3	5
292	First-principles investigation of mechanical properties of silicene, germanene and stanene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 87, 228-232	3	118
291	Molecular Self-Assembly Driven by On-Surface Reduction: Anthracene and Tetracene on Au(111). <i>Journal of Physical Chemistry C</i> , 2017 , 121, 20353-20358	3.8	10
290	Human Thrombin detection platform using aptamers on a silicon nanowire field-effect transistor 2017 ,		1
289	Coherent spin dynamics in a helical arrangement of molecular dipoles. <i>AIMS Materials Science</i> , 2017 , 4, 1052-1061	1.9	7
288	In-Plane Edge Magnetism in Graphene-Like Nanoribbons. <i>Acta Physica Polonica A</i> , 2017 , 131, 828-829	0.6	
287	Discrete polygonal supramolecular architectures of isocytosine-based Pt(II) complexes at the solution/graphite interface. <i>Chemical Communications</i> , 2016 , 52, 11163-6	5.8	7
286	Synthesis of NBN-Type Zigzag-Edged Polycyclic Aromatic Hydrocarbons: 1,9-Diaza-9a-boraphenalene as a Structural Motif. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11606-15	16.4	87
285	Confined Catalytic Janus Swimmers in a Crowded Channel: Geometry-Driven Rectification Transients and Directional Locking. <i>Small</i> , 2016 , 12, 5882-5890	11	26
284	Borophene as an anode material for Ca, Mg, Na or Li ion storage: A first-principle study. <i>Journal of Power Sources</i> , 2016 , 329, 456-461	8.9	147
283	Compact Nanowire Sensors Probe Microdroplets. <i>Nano Letters</i> , 2016 , 16, 4991-5000	11.5	30
282	Influence of organic ligands on the line shape of the Kondo resonance. <i>Physical Review B</i> , 2016 , 93,	3.3	7
281	Electronically Driven Single-Molecule Switch on Silicon Dangling Bonds. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27027-27032	3.8	3
280	Probing Silica-Biomolecule Interactions by Solid-State NMR and Molecular Dynamics Simulations. <i>Langmuir</i> , 2016 , 32, 11698-11705	4	8
279	Atomically Precise Prediction of 2D Self-Assembly of Weakly Bonded Nanostructures: STM Insight into Concentration-Dependent Architectures. <i>Small</i> , 2016 , 12, 343-50	11	28

278	High-Performance Three-Dimensional Tubular Nanomembrane Sensor for DNA Detection. <i>Nano Letters</i> , 2016 , 16, 4288-96	11.5	64
277	Molecular design driving tetraporphyrin self-assembly on graphite: a joint STM, electrochemical and computational study. <i>Nanoscale</i> , 2016 , 8, 13678-86	7.7	19
276	Orthogonal experimental design of titanium dioxide/Poly(methyl methacrylate) electrospun nanocomposite membranes for photocatalytic applications. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 3151-3158	6.8	28
275	An efficient coarse-grained approach for the electron transport through large molecular systems under dephasing environment. <i>European Physical Journal B</i> , 2016 , 89, 1	1.2	3
274	Contact-dependent mechanical properties of graphene nanoribbons: an ab initio study. <i>Nanotechnology</i> , 2016 , 27, 025702	3.4	1
273	Tetracene Formation by On-Surface Reduction. <i>ACS Nano</i> , 2016 , 10, 4538-42	16.7	52
272	Photocatalytic degradation of pharmaceuticals present in conventional treated wastewater by nanoparticle suspensions. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 287-292	6.8	63
271	Impact of incomplete metal coverage on the electrical properties of metal-CNT contacts: A large-scale ab initio study. <i>Applied Physics Letters</i> , 2016 , 109, 103101	3.4	6
270	The modular approach enables a fully ab initio simulation of the contacts between 3D and 2D materials. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 395303	1.8	1
269	Ecotoxicity assessment using ciliate cells in millifluidic droplets. <i>Biomicrofluidics</i> , 2016 , 10, 024115	3.2	8
268	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. <i>Scientific Reports</i> , 2016 , 6, 22524	4.9	2
267	Non-covalent modified multi-walled carbon nanotubes: dispersion capabilities and interactions with bacteria. <i>Biomedical Physics and Engineering Express</i> , 2016 , 2, 055008	1.5	15
266	Towards an optimal contact metal for CNTFETs. <i>Nanoscale</i> , 2016 , 8, 10240-51	7.7	36
265	Reusability of photocatalytic TiO ₂ and ZnO nanoparticles immobilized in poly(vinylidene difluoride)-co-trifluoroethylene. <i>Applied Surface Science</i> , 2016 , 384, 497-504	6.7	83
264	Electron-beam induced synthesis of nanostructures: a review. <i>Nanoscale</i> , 2016 , 8, 11340-62	7.7	87
263	Printable Parallel Arrays of Si Nanowire Schottky-Barrier-FETs With Tunable Polarity for Complementary Logic. <i>IEEE Nanotechnology Magazine</i> , 2016 , 15, 549-556	2.6	21
262	TiO ₂ /graphene oxide immobilized in P(VDF-TrFE) electrospun membranes with enhanced visible-light-induced photocatalytic performance. <i>Journal of Materials Science</i> , 2016 , 51, 6974-6986	4.3	59
261	Integration of Carbon Nanotubes in Silicon Strip and Slot Waveguide Micro-Ring Resonators. <i>IEEE Nanotechnology Magazine</i> , 2016 , 15, 583-589	2.6	8

260	From Fluorine to Fluorene: A Route to Thermally Stable aza-BODIPYs for Organic Solar Cell Application. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600152	6.4	22
259	Ciprofloxacin wastewater treated by UVA photocatalysis: contribution of irradiated TiO ₂ and ZnO nanoparticles on the final toxicity as assessed by <i>Vibrio fischeri</i> . <i>RSC Advances</i> , 2016 , 6, 95494-95503	3.7	36
258	Efficient auxiliary-mode approach for time-dependent nanoelectronics. <i>New Journal of Physics</i> , 2016 , 18, 093044	2.9	20
257	Anisotropic Thermoelectric Response in Two-Dimensional Puckered Structures. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18841-18849	3.8	71
256	Application of silicene, germanene and stanene for Na or Li ion storage: A theoretical investigation. <i>Electrochimica Acta</i> , 2016 , 213, 865-870	6.7	171
255	Thermoelectric properties of nanocarbons: Atomistic modeling. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 591-602	1.6	3
254	Supramolecular Rotor and Translator at Work: On-Surface Movement of Single Atoms. <i>ACS Nano</i> , 2015 , 9, 8394-400	16.7	25
253	Tuning the formation of discrete coordination nanostructures. <i>Chemical Communications</i> , 2015 , 51, 12624-84	4.4	25
252	Scaling and Graphical Transport-Map Analysis of Ambipolar Schottky-Barrier Thin-Film Transistors Based on a Parallel Array of Si Nanowires. <i>Nano Letters</i> , 2015 , 15, 4578-84	11.5	26
251	Contact effects and quantum interference in engineered dangling bond loops on silicon surfaces. <i>Nanoscale</i> , 2015 , 7, 13967-73	7.7	7
250	Spin-Dependent Effects in Helical Molecular Systems with Rashba-Like Spin-Orbit Interaction. <i>Acta Physica Polonica A</i> , 2015 , 127, 185-191	0.6	1
249	Interplay between Mechanical and Electronic Degrees of Freedom in π -Stacked Molecular Junctions: From Single Molecules to Mesoscopic Nanoparticle Networks. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6344-6355	3.8	9
248	Light Weight and Flexible High-Performance Diagnostic Platform. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1517-25	10.1	50
247	Guanosine-based hydrogen-bonded 2D scaffolds: metal-free formation of G-quartet and G-ribbon architectures at the solid/liquid interface. <i>Chemical Communications</i> , 2015 , 51, 11677-80	5.8	33
246	Influence of surface charge on the transport characteristics of nanowire-field effect transistors in liquid environments. <i>Applied Physics Letters</i> , 2015 , 106, 203104	3.4	1
245	In Situ Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. <i>ACS Nano</i> , 2015 , 9, 11408-13	16.7	89
244	Modeling of Solvent Effects in the Electrical Response of π -Stacked Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20201-20209	3.8	3
243	Lateral damage in graphene carved by high energy focused gallium ion beams. <i>Applied Physics Letters</i> , 2015 , 107, 013108	3.4	20

242	Superhydrophobic carbon nanotube/silicon carbide nanowire nanocomposites. <i>Materials and Design</i> , 2015 , 87, 198-204	8.1	14
241	Diameter-Selective Dispersion of Carbon Nanotubes via Polymers: A Competition between Adsorption and Bundling. <i>ACS Nano</i> , 2015 , 9, 9012-9	16.7	27
240	Determination of state of charge-dependent asymmetric Butler-Volmer kinetics for Li _x CoO ₂ electrode using GITT measurements. <i>Journal of Power Sources</i> , 2015 , 299, 156-161	8.9	42
239	Switchable Negative Differential Resistance Induced by Quantum Interference Effects in Porphyrin-based Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3950-5	6.4	24
238	Magnetofluidic platform for multidimensional magnetic and optical barcoding of droplets. <i>Lab on a Chip</i> , 2015 , 15, 216-24	7.2	30
237	Modeling of photocatalytic degradation of organic components in water by nanoparticle suspension. <i>Chemical Engineering Journal</i> , 2015 , 261, 67-75	14.7	18
236	Microfluidic alignment and trapping of 1D nanostructures by a simple fabrication route for single-nanowire field effect transistors. <i>RSC Advances</i> , 2015 , 5, 94702-94706	3.7	7
235	Enhanced thermoelectric figure of merit in polycrystalline carbon nanostructures. <i>Physical Review B</i> , 2015 , 92,	3.3	16
234	Electron transport in extended carbon-nanotube/metal contacts: Ab initio based Green function method. <i>Physical Review B</i> , 2015 , 91,	3.3	13
233	Quantum interference based Boolean gates in dangling bond loops on Si(100):H surfaces. <i>Scientific Reports</i> , 2015 , 5, 14136	4.9	11
232	Monitoring microbial metabolites using an inductively coupled resonance circuit. <i>Scientific Reports</i> , 2015 , 5, 12878	4.9	14
231	Photoassisted transport in silicon dangling bond wires. <i>Applied Physics Letters</i> , 2015 , 107, 203109	3.4	4
230	Light-field-characterization in a continuous hydrogen-producing photobioreactor by optical simulation and computational fluid dynamics. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2439-49	4.9	22
229	Influence of side groups on the performance of infrared absorbing aza-BODIPY organic solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 2747-2753	1.6	32
228	Impact of ultrasonic dispersion on the photocatalytic activity of titania aggregates. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 2423-30	3	8
227	A simple two-step silane-based (bio-) receptor molecule immobilization without additional binding site passivation. <i>RSC Advances</i> , 2015 , 5, 35631-35634	3.7	15
226	Engineering thermal rectification in MoS ₂ nanoribbons: a non-equilibrium molecular dynamics study. <i>RSC Advances</i> , 2015 , 5, 54345-54351	3.7	10
225	pH measurements of FET-based (bio)chemical sensors using portable measurement system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6445-8	0.9	1

224	Optoelectronic switching of nanowire-based hybrid organic/oxide/semiconductor field-effect transistors. <i>Nano Research</i> , 2015 , 8, 1229-1240	10	30
223	Materials Meets Concepts in Molecule-Based Electronics. <i>Advanced Functional Materials</i> , 2015 , 25, 1933-1954	19.54	44
222	Multifunctional reversibly sealable microfluidic devices for patterned material deposition approaches. <i>RSC Advances</i> , 2015 , 5, 11806-11811	3.7	4
221	Mechanical properties and thermal conductivity of graphitic carbon nitride: A molecular dynamics study. <i>Computational Materials Science</i> , 2015 , 99, 285-289	3.2	87
220	Schottky barrier-based silicon nanowire pH sensor with live sensitivity control. <i>Nano Research</i> , 2014 , 7, 263-271	10	42
219	Change of mechanical vertebrae properties due to progressive osteoporosis: combined biomechanical and finite-element analysis within a rat model. <i>Medical and Biological Engineering and Computing</i> , 2014 , 52, 405-14	3.1	15
218	Unveiling the Atomic Structure of Single-Wall Boron Nanotubes. <i>Advanced Functional Materials</i> , 2014 , 24, 4127-4134	15.6	26
217	Room temperature in situ growth of B/BOx nanowires and BOx nanotubes. <i>Nano Letters</i> , 2014 , 14, 799-805	8.5	12
216	Atomistic modeling of mechanical properties of polycrystalline graphene. <i>Nanotechnology</i> , 2014 , 25, 215704	3.4	86
215	Ionic effects on the transport characteristics of nanowire-based FETs in a liquid environment. <i>Nano Research</i> , 2014 , 7, 380-389	10	10
214	Contact properties of ultrasmall carbon nanotube transistors from Ab-initio 2014 ,		1
213	Multiscale modeling of thermal conductivity of polycrystalline graphene sheets. <i>Nanoscale</i> , 2014 , 6, 3344-52	4.52	88
212	Copper nanowire synthesis by directed electrochemical nanowire assembly. <i>RSC Advances</i> , 2014 , 4, 46363-46368	3.7	21
211	Single-crystalline CdTe nanowire field effect transistors as nanowire-based photodetector. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22687-93	3.6	44
210	Structural distortions in molecular-based quantum cellular automata: a minimal model based study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17777-85	3.6	7
209	Graphene Coatings for the Mitigation of Electron Stimulated Desorption and Fullerene Cap Formation. <i>Chemistry of Materials</i> , 2014 , 26, 4998-5003	9.6	5
208	Quantum interference in thermoelectric molecular junctions: A toy model perspective. <i>Journal of Applied Physics</i> , 2014 , 116, 074308	2.5	15
207	Determination of the Young's modulus of porous E-type Ti ₃ ONb by finite element analysis. <i>Materials & Design</i> , 2014 , 64, 1-8		18

206	Quantum coherence of bulk electrons on metals revealed by scanning tunneling spectroscopy. <i>Physical Review B</i> , 2014 , 89,	3.3	1
205	Annealing effect on the thermal conductivity of thermoelectric ZnTe nanowires. <i>Materials Letters</i> , 2014 , 135, 87-91	3.3	2
204	In Situ Observation of Melting Behavior of ZnTe Nanowires. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15061-15067	3.8	11
203	Dynamic Effects on the Charge Transport in an Organic Near-Infrared Absorber Material. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6537-6547	3.8	12
202	Mechanical properties of polycrystalline boron-nitride nanosheets. <i>RSC Advances</i> , 2014 , 4, 19137-19143	3.7	83
201	Effect of waveform of ac voltage on the morphology and crystallinity of electrochemically assembled platinum nanowires. <i>Langmuir</i> , 2014 , 30, 5655-61	4	3
200	DFT study of reaction processes of methane combustion on PdO(100). <i>Chemical Physics</i> , 2014 , 443, 53-60	3.3	20
199	Selective laser treatment and laser patterning of metallic and semiconducting nanotubes in single walled carbon nanotube films. <i>Diamond and Related Materials</i> , 2014 , 45, 70-75	3.5	11
198	Detonation nanodiamonds biofunctionalization and immobilization to titanium alloy surfaces as first steps towards medical application. <i>Beilstein Journal of Organic Chemistry</i> , 2014 , 10, 2765-2773	2.5	15
197	Package characterization of FET-based biochemical sensors 2014 ,		1
196	Towards a multiscale modeling framework for metal-CNT interfaces 2014 ,		4
195	Contact effects in spin transport along double-helical molecules. <i>Physical Review B</i> , 2014 , 89,	3.3	33
194	Selection of a DNA aptamer against norovirus capsid protein VP1. <i>FEMS Microbiology Letters</i> , 2014 , 351, 162-9	2.9	44
193	Biotechnological hydrogen production by photosynthesis. <i>Engineering in Life Sciences</i> , 2014 , 14, 592-606	3.4	19
192	Innovative Molecular Design for a Volume Oriented Component Diagnostic: Modified Magnetic Nanoparticles on High Performance Yarns for Smart Textiles. <i>Advanced Engineering Materials</i> , 2014 , 16, 1276-1283	3.5	1
191	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2014 , 72, 372-380	10.4	98
190	Lab on a Wire: Application of Silicon Nanowires for Nanoscience and Biotechnology 2014 , 241-278		2
189	A bottom-up route to enhance thermoelectric figures of merit in graphene nanoribbons. <i>Scientific Reports</i> , 2013 , 3, 1228	4.9	101

188	Parallel arrays of Schottky barrier nanowire field effect transistors: Nanoscopic effects for macroscopic current output. <i>Nano Research</i> , 2013 , 6, 381-388	10	47
187	Growth of all-carbon horizontally aligned single-walled carbon nanotubes nucleated from fullerene-based structures. <i>Nanoscale Research Letters</i> , 2013 , 8, 265	5	6
186	Combined effect of strain and defects on the conductance of graphene nanoribbons. <i>Physical Review B</i> , 2013 , 88,	3.3	32
185	Quantification of curvature effects in boron and carbon nanotubes: Band structures and ballistic current. <i>Physical Review B</i> , 2013 , 87,	3.3	7
184	Low-Energy Conformational Gating in π -Conjugated Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 4192-4195	6.4	10
183	Patterned biochemical functionalization improves aptamer-based detection of unlabeled thrombin in a sandwich assay. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12029-35	9.5	26
182	Comparison of electron and phonon transport in disordered semiconductor carbon nanotubes. <i>Journal of Computational Electronics</i> , 2013 , 12, 685-691	1.8	6
181	High yield formation of lipid bilayer shells around silicon nanowires in aqueous solution. <i>Nanotechnology</i> , 2013 , 24, 355601	3.4	4
180	Spatial recognition of defects and tube type in carbon nanotube field effect transistors using electrostatic force microscopy. <i>Nanotechnology</i> , 2013 , 24, 235708	3.4	2
179	Portable measurement system for silicon nanowire field-effect transistor-based biosensors 2013 ,		4
178	Bio-functionalization of multi-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17158-64	3.6	9
177	Effects of Al-doping on the properties of LiMnNiO cathode materials for Li-ion batteries: an ab initio study. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9273	13	68
176	A parabolic model to control quantum interference in T-shaped molecular junctions. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13951-8	3.6	22
175	Fuel-free locomotion of Janus motors: magnetically induced thermophoresis. <i>ACS Nano</i> , 2013 , 7, 1360-7	16.7	147
174	Moving nanostructures: pulse-induced positioning of supramolecular assemblies. <i>ACS Nano</i> , 2013 , 7, 191-7	16.7	52
173	Bandgap engineering of $\text{Cd}(x)\text{Zn}(1-x)\text{Te}$ nanowires. <i>Nanoscale</i> , 2013 , 5, 932-5	7.7	6
172	Control over Janus micromotors by the strength of a magnetic field. <i>Nanoscale</i> , 2013 , 5, 1332-6	7.7	76
171	Reverse breakdown behavior in organic pin-diodes comprising C_{60} and pentacene: Experiment and theory. <i>Organic Electronics</i> , 2013 , 14, 193-199	3.5	14

170	Modeling charge transport in DNA using multi-scale methods. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2277-2287	1.3	21
169	Understanding the catalyst-free transformation of amorphous carbon into graphene by current-induced annealing. <i>Scientific Reports</i> , 2013 , 3,	4.9	72
168	Dynamic and electronic transport properties of DNA translocation through graphene nanopores. <i>Nano Letters</i> , 2013 , 13, 1969-76	11.5	101
167	Carbon nanostructures as multi-functional drug delivery platforms. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 401-428	7.3	149
166	Bottom-up synthesis of ultrathin straight platinum nanowires: Electric field impact. <i>Nano Research</i> , 2013 , 6, 303-311	10	19
165	Modeling Spin Transport in Helical Fields: Derivation of an Effective Low-Dimensional Hamiltonian. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 22276-22284	3.8	77
164	Unimolecular amplifier: principles of a three-terminal device with power gain. <i>Nanoscale</i> , 2013 , 5, 6975-847	4.7	10
163	Channel length dependent sensor response of Schottky-barrier FET pH sensors 2013 ,		2
162	Ion fluxes and electro-osmotic fluid flow in electrolytes around a metallic nanowire tip under large applied ac voltage. <i>Langmuir</i> , 2013 , 29, 11525-34	4	4
161	A Systematic and Comparative Study of Binary Metal Catalysts for Carbon Nanotube Fabrication Using CVD and Laser Evaporation. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013 , 21, 273-285	1.8	7
160	Magnetoresistive emulsion analyzer. <i>Scientific Reports</i> , 2013 , 3, 2548	4.9	22
159	Silicon nanowires as a versatile technology platform. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 793-799	2.5	47
158	Prediction of quantum interference in molecular junctions using a parabolic diagram: Understanding the origin of Fano and anti- resonances. <i>Journal of Physics: Conference Series</i> , 2013 , 427, 012013	0.3	8
157	Switching Mechanisms for Single-Molecule Logic Gates. <i>Advances in Atom and Single Molecule Machines</i> , 2013 , 55-69	0	
156	Vibrational Heating in Single-Molecule Switches. <i>Advances in Atom and Single Molecule Machines</i> , 2013 , 87-96	0	
155	Understanding high-yield catalyst-free growth of horizontally aligned single-walled carbon nanotubes nucleated by activated C60 species. <i>ACS Nano</i> , 2012 , 6, 10825-34	16.7	22
154	Aspects of computing with locally connected networks 2012 ,		3
153	Nanoscale ear drum: graphene based nanoscale sensors. <i>Nanoscale</i> , 2012 , 4, 3168-74	7.7	17

152	SCC-DFTB Parametrization for Boron and Boranes. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 1153-63	6.4	23
151	Dielectrophoretic growth of platinum nanowires: concentration and temperature dependence of the growth velocity. <i>Langmuir</i> , 2012 , 28, 7498-504	4	16
150	Probing charge transport in oxidatively damaged DNA sequences under the influence of structural fluctuations. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10977-85	3.4	14
149	Vibrational heating in single-molecule switches: an energy-dependent density-of-states approach. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 394003	1.8	1
148	Amorphous carbon under 80 kV electron irradiation: a means to make or break graphene. <i>Advanced Materials</i> , 2012 , 24, 5630-5	24	52
147	Spin-selective transport through helical molecular systems. <i>Physical Review B</i> , 2012 , 85,	3.3	145
146	Nonadiabatic electron pumping through interacting quantum dots. <i>Physical Review B</i> , 2012 , 85,	3.3	22
145	Understanding the growth of amorphous SiO ₂ nanofibers and crystalline binary nanoparticles produced by laser ablation. <i>Nanotechnology</i> , 2012 , 23, 035601	3.4	6
144	CVD-grown horizontally aligned single-walled carbon nanotubes: synthesis routes and growth mechanisms. <i>Small</i> , 2012 , 8, 1973-92	11	46
143	Disorder and dephasing effects on electron transport through conjugated molecular wires in molecular junctions. <i>Physical Review B</i> , 2012 , 85,	3.3	42
142	Computing Raman and infrared wavenumbers of nanostructures: application to silicon nanowires. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 1214-1220	2.3	1
141	Charge Migration in Organic Materials: Can Propagating Charges Affect the Key Physical Quantities Controlling Their Motion?. <i>Israel Journal of Chemistry</i> , 2012 , 52, 452-460	3.4	13
140	Nucleobase adsorbed at graphene devices: Enhance bio-sensorics. <i>Applied Physics Letters</i> , 2012 , 100, 063101	3.4	40
139	Defect assisted thermal synthesis of crystalline aluminum borate nanowires. <i>Journal of Applied Physics</i> , 2012 , 112, 024308	2.5	3
138	Nonadiabatic rectification and current reversal in electron pumps. <i>Physical Review B</i> , 2012 , 86,	3.3	12
137	Publisher's Note: Spin-selective transport through helical molecular systems [Phys. Rev. B 85, 081404(R) (2012)]. <i>Physical Review B</i> , 2012 , 85,	3.3	4
136	STM manipulation of a subphthalocyanine double-wheel molecule on Au(111). <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 404001	1.8	14
135	Dynamics of a nanoscale rotor driven by single-electron tunneling. <i>Europhysics Letters</i> , 2012 , 98, 68004	1.6	16

134	Effects of domains in phonon conduction through hybrid boron nitride and graphene sheets. <i>Physical Review B</i> , 2011 , 84,	3.3	53
133	Phonon engineering in carbon nanotubes by controlling defect concentration. <i>Nano Letters</i> , 2011 , 11, 4971-7	11.5	90
132	Control of thermal and electronic transport in defect-engineered graphene nanoribbons. <i>ACS Nano</i> , 2011 , 5, 3779-87	16.7	279
131	Dynamical bistability of single-molecule junctions: A combined experimental and theoretical study of PTCDA on Ag(111). <i>Physical Review B</i> , 2011 , 84,	3.3	11
130	Engineering carbon chains from mechanically stretched graphene-based materials. <i>Physical Review B</i> , 2011 , 83,	3.3	47
129	Dimerization of Radical-Anions: Nitride Clusterfullerenes versus Empty Fullerenes. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1592-1600	6.4	20
128	Efficient linear scaling method for computing the thermal conductivity of disordered materials. <i>Physical Review B</i> , 2011 , 83,	3.3	34
127	Highly conductive boron nanotubes: transport properties, work functions, and structural stabilities. <i>ACS Nano</i> , 2011 , 5, 4997-5005	16.7	94
126	In situ preparation and protein delivery of silicate-alginate composite microspheres with core-shell structure. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1804-14	4.1	34
125	Organometallic complexes of graphene: toward atomic spintronics using a graphene web. <i>ACS Nano</i> , 2011 , 5, 9939-49	16.7	67
124	Optimizing substrate surface and catalyst conditions for high yield chemical vapor deposition grown epitaxially aligned single-walled carbon nanotubes. <i>Carbon</i> , 2011 , 49, 5029-5037	10.4	16
123	Multifunctional magnetic mesoporous bioactive glass scaffolds with a hierarchical pore structure. <i>Acta Biomaterialia</i> , 2011 , 7, 3563-72	10.8	149
122	Bioactive SrO-SiO ₂ glass with well-ordered mesopores: characterization, physiochemistry and biological properties. <i>Acta Biomaterialia</i> , 2011 , 7, 1797-806	10.8	105
121	Synthesis of carbon nanotubes with and without catalyst particles. <i>Nanoscale Research Letters</i> , 2011 , 6, 303	5	70
120	Growth of catalyst-assisted and catalyst-free horizontally aligned single wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2467-2470	1.3	3
119	Graphene: Piecing it together. <i>Advanced Materials</i> , 2011 , 23, 4471-90	24	115
118	Molecules for organic electronics studied one by one. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1442-166	3	5
117	The State of Asymmetric Nitride Clusters in Endohedral Fullerenes as Studied by ¹⁴ N NMR Spectroscopy: Experiment and Theory. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15257-15265	3.8	15

116	Dipole Assisted Photogated Switch in Spiropyran Grafted Polyaniline Nanowires. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3123-3128	3.8	37
115	Multiscale modeling of nanowire-based Schottky-barrier field-effect transistors for sensor applications. <i>Nanotechnology</i> , 2011 , 22, 325703	3.4	12
114	Coverage-Driven Electronic Decoupling of Fe-Phthalocyanine from a Ag(111) Substrate. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12173-12179	3.8	61
113	Three-dimensional printing of hierarchical and tough mesoporous bioactive glass scaffolds with a controllable pore architecture, excellent mechanical strength and mineralization ability. <i>Acta Biomaterialia</i> , 2011 , 7, 2644-50	10.8	288
112	Resonant neutral particle emission in collisions of electrons with protonated peptides with disulfide bonds at high energies. <i>Chemical Physics Letters</i> , 2011 , 504, 83-87	2.5	
111	Mechanically-induced transport switching effect in graphene-based nanojunctions. <i>Physical Review B</i> , 2011 , 83,	3.3	7
110	Heat transport and thermal rectification in molecular junctions: A minimal model approach. <i>Physical Review B</i> , 2011 , 84,	3.3	7
109	The catalytic potential of high- ϵ dielectrics for graphene formation. <i>Applied Physics Letters</i> , 2011 , 98, 073110	3.4	57
108	Enhancing single-parameter quantum charge pumping in carbon-based devices. <i>Applied Physics Letters</i> , 2011 , 99, 092102	3.4	44
107	Electrical transport through a mechanically gated molecular wire. <i>Physical Review B</i> , 2011 , 83,	3.3	33
106	Low temperature CVD growth of graphene nano-flakes directly on high K dielectrics. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1284, 19		1
105	Transport response of carbon-based resonant cavities under time-dependent potential and magnetic fields. <i>Europhysics Letters</i> , 2011 , 94, 47002	1.6	4
104	ac transport in graphene-based Fabry-Pérot devices. <i>Physical Review B</i> , 2010 , 81,	3.3	54
103	Engineering the figure of merit and thermopower in single-molecule devices connected to semiconducting electrodes. <i>Physical Review B</i> , 2010 , 81,	3.3	79
102	In situ observations of self-repairing single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 81,	3.3	24
101	Controlling the conductance of molecular wires by defect engineering. <i>New Journal of Physics</i> , 2010 , 12, 063004	2.9	21
100	Structural stability versus conformational sampling in biomolecular systems: why is the charge transfer efficiency in G4-DNA better than in double-stranded DNA?. <i>Journal of Chemical Physics</i> , 2010 , 133, 035103	3.9	50
99	Organic Zener diodes: tunneling across the gap in organic semiconductor materials. <i>Nano Letters</i> , 2010 , 10, 4929-34	11.5	56

98	Dielectrophoretic growth of metallic nanowires and microwires: theory and experiments. <i>Langmuir</i> , 2010 , 26, 552-9	4	32
97	Phonon transport in large scale carbon-based disordered materials: Implementation of an efficient order-N and real-space Kubo methodology. <i>Physical Review B</i> , 2010 , 82,	3.3	39
96	Direct low-temperature nanographene CVD synthesis over a dielectric insulator. <i>ACS Nano</i> , 2010 , 4, 4206-4.9	16.9	279
95	Modeling graphene-based nanoelectromechanical devices. <i>Physical Review B</i> , 2010 , 81,	3.3	52
94	Structural fluctuations and quantum transport through DNA molecular wires: a combined molecular dynamics and model Hamiltonian approach. <i>New Journal of Physics</i> , 2010 , 12, 023022	2.9	50
93	Enhanced thermoelectric figure of merit in edge-disordered zigzag graphene nanoribbons. <i>Physical Review B</i> , 2010 , 81,	3.3	231
92	Charge migration through DNA molecules in the presence of mismatches. <i>Physical Review B</i> , 2010 , 82,	3.3	15
91	Investigating the outskirts of Fe and Co catalyst particles in alumina-supported catalytic CVD carbon nanotube growth. <i>ACS Nano</i> , 2010 , 4, 1146-52	16.7	44
90	Enhanced π - π interactions between a C60 fullerene and a buckle bend on a double-walled carbon nanotube. <i>Nano Research</i> , 2010 , 3, 92-97	10	14
89	Electrical Conductance in Biological Molecules. <i>Advanced Functional Materials</i> , 2010 , 20, 1865-1883	15.6	81
88	Distance-dependent coherent charge transport in DNA: crossover from tunneling to free propagation. <i>Journal of Biophysical Chemistry</i> , 2010 , 01, 77-85	0.1	14
87	Charge transport through biomolecular wires in a solvent: bridging molecular dynamics and model Hamiltonian approaches. <i>Physical Review Letters</i> , 2009 , 102, 208102	7.4	77
86	SCREW MOTION OF DNA DUPLEX DURING TRANSLOCATION THROUGH PORE I: INTRODUCTION OF THE COARSE-GRAINED MODEL. <i>Biophysical Reviews and Letters</i> , 2009 , 04, 209-230	1.2	7
85	Green Function Techniques in the Treatment of Quantum Transport at the Molecular Scale. <i>Springer Series in Chemical Physics</i> , 2009 , 213-335	0.3	37
84	Combined density functional theory and Landauer approach for hole transfer in DNA along classical molecular dynamics trajectories. <i>Journal of Chemical Physics</i> , 2009 , 130, 215104	3.9	73
83	Controlled Stability of Molecular Junctions. <i>Angewandte Chemie</i> , 2009 , 121, 8423-8426	3.6	11
82	Controlled stability of molecular junctions. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8273-6	16.4	28
81	Silicon-based molecular switch junctions. <i>Nano Research</i> , 2009 , 2, 648-659	10	30

80	Single-molecule DNA conductance in water solutions: Role of DNA low-frequency dynamics. <i>Chemical Physics Letters</i> , 2009 , 467, 369-374	2.5	12
79	AC transport in carbon-based devices: challenges and perspectives. <i>Comptes Rendus Physique</i> , 2009 , 10, 297-304	1.4	6
78	Controlling the conductance and noise of driven carbon-based Fabry-Pérot devices. <i>Applied Physics Letters</i> , 2009 , 94, 222103	3.4	39
77	Conformation dependence of DNA exciton parentage. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10428-34	3.5	37
76	Scanning tunneling spectroscopy of single DNA molecules. <i>ACS Nano</i> , 2009 , 3, 1651-6	16.7	25
75	Propagation scheme for nonequilibrium dynamics of electron transport in nanoscale devices. <i>Physical Review B</i> , 2009 , 80,	3.3	73
74	Dissociative Adsorption of Methane on Surface Oxide Structures of PdPt Alloys. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21097-21105	3.8	15
73	SINGLE-MOLECULE DNA CONDUCTANCE IN WATER SOLUTIONS: ROLE OF EXPLICIT WATER COUNTERION SHEATH AND CHEMICAL MODIFICATION OF NUCLEOBASES. <i>Biophysical Reviews and Letters</i> , 2009 , 04, 231-243	1.2	3
72	Unravelling the mechanisms behind mixed catalysts for the high yield production of single-walled carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 3839-44	16.7	3
71	Spin-valve effect in zigzag graphene nanoribbons by defect engineering. <i>Physical Review B</i> , 2009 , 80,	3.3	47
70	Analytical calculation of the excess current in the OctavioinkhamBlonderKlapwijk theory. <i>Superconductor Science and Technology</i> , 2009 , 22, 085016	3.1	9
69	Electronic structure of single DNA molecules resolved by transverse scanning tunnelling spectroscopy. <i>Nature Materials</i> , 2008 , 7, 68-74	27	128
68	Diffusion and localization in carbon nanotubes and graphene nanoribbons. <i>New Journal of Physics</i> , 2008 , 10, 065014	2.9	8
67	Modeling extended contacts for nanotube and graphene devices. <i>Physical Review B</i> , 2008 , 77,	3.3	61
66	Effective Models for Charge Transport in DNA Nanowires 2008 , 107-119		2
65	Vibrational modes and low-temperature thermal properties of graphene and carbon nanotubes: Minimal force-constant model. <i>Physical Review B</i> , 2008 , 78,	3.3	107
64	Anomalous conductance response of DNA wires under stretching. <i>Nano Letters</i> , 2008 , 8, 3217-20	11.5	28
63	Charge-memory effect in a polaron model: equation-of-motion method for Green functions. <i>New Journal of Physics</i> , 2008 , 10, 085002	2.9	18

62	Exposing Multiple Roles of H ₂ O in High-Temperature Enhanced Carbon Nanotube Synthesis. <i>Chemistry of Materials</i> , 2008 , 20, 6586-6588	9.6	17
61	Charge-memory polaron effect in molecular junctions. <i>Physical Review B</i> , 2008 , 78,	3.3	21
60	Quantum transport through STM-lifted single PTCDA molecules. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 93, 335-343	2.6	17
59	Charge transport in disordered graphene-based low dimensional materials. <i>Nano Research</i> , 2008 , 1, 361-394	3.4	279
58	Efficient calculation of charge-transfer matrix elements for hole transfer in DNA. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7937-47	3.4	135
57	Rectification effects in coherent transport through single molecules. <i>Surface Science</i> , 2007 , 601, 4109-4118	1.8	5
56	Ballistic magnetoresistance in small-size carbon nanotube devices. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 2439-2441	2.8	3
55	Tuning the conductance of a molecular switch. <i>Nature Nanotechnology</i> , 2007 , 2, 176-9	28.7	169
54	Hofstadter butterflies of bilayer graphene. <i>Physical Review B</i> , 2007 , 75,	3.3	50
53	Molecular junctions in the Coulomb blockade regime: Rectification and nesting. <i>Physical Review B</i> , 2007 , 76,	3.3	35
52	Nonequilibrium resonant spectroscopy of molecular vibrons. <i>Physical Review B</i> , 2007 , 76,	3.3	30
51	Tight-Binding Modeling of Charge Migration in DNA Devices. <i>Nanoscience and Technology</i> , 2007 , 1-20	0.6	14
50	AC-Driven Transport Through Molecular Wires 2006 , 55-75		4
49	Hofstadter butterflies of carbon nanotubes: Pseudofractality of the magnetoelectronic spectrum. <i>Physical Review B</i> , 2006 , 74,	3.3	45
48	Scaling of the conductance in gold nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	12
47	Contact dependence of carrier injection in carbon nanotubes: an ab initio study. <i>Physical Review Letters</i> , 2006 , 96, 076802	7.4	168
46	Nonequilibrium molecular vibrons: An approach based on the nonequilibrium Green function technique and the self-consistent Born approximation. <i>Physical Review B</i> , 2006 , 73,	3.3	69
45	DNA Conduction: The Issue of Static Disorder, Dynamic Fluctuations and Environmental Effects 2006 , 433-464		3

44	Introducing Molecular Electronics 2006 ,		18
43	Inelastic quantum transport in a ladder model: Implications for DNA conduction and comparison to experiments on suspended DNA oligomers. <i>Physical Review B</i> , 2006 , 74,	3-3	63
42	Introducing Molecular Electronics: A Brief Overview 2006 , 1-10		9
41	Spin transport in disordered single-wall carbon nanotubes contacted to ferromagnetic leads. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 179-182	1-3	5
40	Transport through Intrinsic Quantum Dots in Interacting Carbon Nanotubes 2006 , 229-249		
39	Modelling molecular conduction in DNA wires: charge transfer theories and dissipative quantum transport 2006 , 383-391		1
38	Quantum transport through a DNA wire in a dissipative environment. <i>Nano Letters</i> , 2005 , 5, 1093-7	11.5	63
37	The puzzle of contrast inversion in DNA STM imaging. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14270-4	3.4	27
36	Dissipative effects in the electronic transport through DNA molecular wires. <i>Physical Review B</i> , 2005 , 71,	3-3	56
35	Vibrational effects in the linear conductance of carbon nanotubes. <i>Europhysics Letters</i> , 2005 , 71, 438-444	1.6	34
34	Defective transport properties of three-terminal carbon nanotube junctions. <i>Physical Review B</i> , 2005 , 71,	3-3	23
33	Filament depolymerization by motor molecules. <i>Physical Review Letters</i> , 2005 , 94, 108102	7.4	52
32	Giant magnetoresistance of multiwall carbon nanotubes: Modeling the tube/ferromagnetic-electrode burying contact. <i>Physical Review B</i> , 2004 , 69,	3-3	23
31	Description of unconventional electronic transport in mesoscopic structures. <i>Applied Physics Letters</i> , 2004 , 85, 3104-3106	3-4	2
30	From a local Green's function to molecular charge transport. <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, 2179-2188	1-3	5
29	Model evaluation for glycolytic oscillations in yeast biotransformations of xenobiotics. <i>Biophysical Chemistry</i> , 2004 , 109, 413-26	3-5	6
28	Tight-Binding Description of the STM Image of Molecular Chains. <i>Israel Journal of Chemistry</i> , 2004 , 44, 133-143	3-4	13
27	Transmittance anomalies of a ring with lead-positional asymmetry. <i>European Physical Journal B</i> , 2003 , 33, 221-225	1.2	13

26	A three terminal ring interferometer logic gate. <i>Annals of the New York Academy of Sciences</i> , 2003 , 1006, 306-11	6.5	8
25	Molecular wire-nanotube interfacial effects on electron transport. <i>Annals of the New York Academy of Sciences</i> , 2002 , 960, 216-24	6.5	0
24	Fullerene based devices for molecular electronics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 12, 749-752	3	15
23	Fingerprints of mesoscopic leads in the conductance of a molecular wire. <i>Chemical Physics</i> , 2002 , 281, 465-476	2.3	39
22	Pure-carbon ring transistor: Role of topology and structure. <i>Applied Physics Letters</i> , 2002 , 81, 850-852	3.4	36
21	Correlated tunneling in intramolecular carbon nanotube quantum dots. <i>Physical Review Letters</i> , 2002 , 89, 196402	7.4	33
20	Backbone-induced semiconducting behavior in short DNA wires. <i>Physical Review B</i> , 2002 , 65,	3.3	179
19	Theory of an all-carbon molecular switch. <i>Physical Review B</i> , 2002 , 65,	3.3	77
18	The Role of Contacts in Molecular Electronics 2002 , 133-149		19
17	Reconstructing the Thermal Green Functions at Real Times from Those at Imaginary Times. <i>Communications in Mathematical Physics</i> , 2001 , 216, 59-83	2	45
16	Asset-asset interactions and clustering in financial markets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 262-267	3.3	2
15	Liquid markets and market liquids. <i>European Physical Journal B</i> , 2001 , 20, 561-564	1.2	2
14	Electron transport in nanotube-molecular-wire hybrids. <i>Physical Review B</i> , 2001 , 63,	3.3	32
13	Effects of regulation on a self-organized market *. <i>Quantitative Finance</i> , 2001 , 1, 332-335	1.6	8
12	Fermi Liquids and Luttinger Liquids. <i>Springer Series in Solid-state Sciences</i> , 2000 , 9-81	0.4	9
11	Frequency scaling of photo-induced tunneling. <i>Europhysics Letters</i> , 1999 , 48, 66-72	1.6	12
10	Correlations in the bond-future market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 269, 90-97	3.3	6
9	Volatility in the Italian stock market: an empirical study. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 269, 148-155	3.3	34

- 8 ac conductance of a quantum wire with electron-electron interactions. *Physical Review B*, **1998**, 57, 1515-1526 60
- 7 Sum rule for transport in a Luttinger liquid with long-range interaction in the presence of an impurity. *Europhysics Letters*, **1997**, 37, 421-426 1.6 3
- 6 Coulomb blockade at a tunnel junction between two quantum wires with long-range interaction. *Solid State Communications*, **1997**, 101, 915-919 1.6 3
- 5 Transport and elementary excitations of a Luttinger liquid. *Journal of Physics Condensed Matter*, **1996**, 8, L21-L26 1.8 28
- 4 AC-conductance of one-dimensional, long-range correlated electrons. *Physica B: Condensed Matter*, **1996**, 227, 256-258 2.8 6
- 3 Charge Transport in DNA-Based Devices. *Topics in Current Chemistry*, 183-228 204
- 2 Emerging Internet of Things driven carbon nanotubes-based devices. *Nano Research*, 1 10 5
- 1 Machine Learning-Enabled Smart Gas Sensing Platform for Identification of Industrious Gases. *Advanced Intelligent Systems*, 2200016 6 2