

Gianaurelio Cuniberti

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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	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
474	Control of thermal and electronic transport in defect-engineered graphene nanoribbons. <i>ACS Nano</i> , 2011 , 5, 3779-87	16.7	279
473	Direct low-temperature nanographene CVD synthesis over a dielectric insulator. <i>ACS Nano</i> , 2010 , 4, 4206-10	16.7	279
472	Charge transport in disordered graphene-based low dimensional materials. <i>Nano Research</i> , 2008 , 1, 361-364	16.7	279
471	Enhanced thermoelectric figure of merit in edge-disordered zigzag graphene nanoribbons. <i>Physical Review B</i> , 2010 , 81,	3.3	231
470	Charge Transport in DNA-Based Devices. <i>Topics in Current Chemistry</i> , 183-228		204
469	Backbone-induced semiconducting behavior in short DNA wires. <i>Physical Review B</i> , 2002 , 65,	3.3	179
468	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
467	Tuning the conductance of a molecular switch. <i>Nature Nanotechnology</i> , 2007 , 2, 176-9	28.7	169
466	Contact dependence of carrier injection in carbon nanotubes: an ab initio study. <i>Physical Review Letters</i> , 2006 , 96, 076802	7.4	168
465	Carbon nanostructures as multi-functional drug delivery platforms. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 401-428	7.3	149
464	Multifunctional magnetic mesoporous bioactive glass scaffolds with a hierarchical pore structure. <i>Acta Biomaterialia</i> , 2011 , 7, 3563-72	10.8	149
463	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
462	Fuel-free locomotion of Janus motors: magnetically induced thermophoresis. <i>ACS Nano</i> , 2013 , 7, 1360-7	16.7	147
461	Spin-selective transport through helical molecular systems. <i>Physical Review B</i> , 2012 , 85,	3.3	145
460	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
459	Electronic structure of single DNA molecules resolved by transverse scanning tunnelling spectroscopy. <i>Nature Materials</i> , 2008 , 7, 68-74	27	128

458	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
457	Graphene: Piecing it together. <i>Advanced Materials</i> , 2011 , 23, 4471-90	24	115
456	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
455	Decacene: On-Surface Generation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11945-11948	16.4	107
454	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
453	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
452	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
451	A bottom-up route to enhance thermoelectric figures of merit in graphene nanoribbons. <i>Scientific Reports</i> , 2013 , 3, 1228	4.9	101
450	Dynamic and electronic transport properties of DNA translocation through graphene nanopores. <i>Nano Letters</i> , 2013 , 13, 1969-76	11.5	101
449	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
448	Highly conductive boron nanotubes: transport properties, work functions, and structural stabilities. <i>ACS Nano</i> , 2011 , 5, 4997-5005	16.7	94
447	Chirality-Dependent Electron Spin Filtering by Molecular Monolayers of Helicenes. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2025-2030	6.4	91
446	Phonon engineering in carbon nanotubes by controlling defect concentration. <i>Nano Letters</i> , 2011 , 11, 4971-7	11.5	90
445	In Situ Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. <i>ACS Nano</i> , 2015 , 9, 11408-13	16.7	89
444	Multiscale modeling of thermal conductivity of polycrystalline graphene sheets. <i>Nanoscale</i> , 2014 , 6, 3344-52	4.52	88
443	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
442	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
441	Electron-beam induced synthesis of nanostructures: a review. <i>Nanoscale</i> , 2016 , 8, 11340-62	7.7	87

440	Atomistic modeling of mechanical properties of polycrystalline graphene. <i>Nanotechnology</i> , 2014 , 25, 215704	3.4	86
439	Mechanical properties of polycrystalline boron-nitride nanosheets. <i>RSC Advances</i> , 2014 , 4, 19137-19143	3.7	83
438	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
437	Electrical Conductance in Biological Molecules. <i>Advanced Functional Materials</i> , 2010 , 20, 1865-1883	15.6	81
436	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
435	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
434	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
433	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
432	Theory of an all-carbon molecular switch. <i>Physical Review B</i> , 2002 , 65,	3.3	77
431	Control over Janus micromotors by the strength of a magnetic field. <i>Nanoscale</i> , 2013 , 5, 1332-6	7.7	76
430	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2017 , 29, 1605254	24	73
429	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
428	Propagation scheme for nonequilibrium dynamics of electron transport in nanoscale devices. <i>Physical Review B</i> , 2009 , 80,	3.3	73
427	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
426	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
425	Understanding the catalyst-free transformation of amorphous carbon into graphene by current-induced annealing. <i>Scientific Reports</i> , 2013 , 3,	4.9	72
424	Anisotropic Thermoelectric Response in Two-Dimensional Puckered Structures. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18841-18849	3.8	71
423	Synthesis of carbon nanotubes with and without catalyst particles. <i>Nanoscale Research Letters</i> , 2011 , 6, 303	5	70

4 ²²	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
4 ²¹	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
4 ²⁰	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
4 ¹⁹	Organometallic complexes of graphene: toward atomic spintronics using a graphene web. <i>ACS Nano</i> , 2011 , 5, 9939-49	16.7	67
4 ¹⁸	High-Performance Three-Dimensional Tubular Nanomembrane Sensor for DNA Detection. <i>Nano Letters</i> , 2016 , 16, 4288-96	11.5	64
4 ¹⁷	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
4 ¹⁶	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
4 ¹⁵	Quantum transport through a DNA wire in a dissipative environment. <i>Nano Letters</i> , 2005 , 5, 1093-7	11.5	63
4 ¹⁴	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
4 ¹³	Persulfurated Coronene: A New Generation of "Sulflower". <i>Journal of the American Chemical Society</i> , 2017 , 139, 2168-2171	16.4	62
4 ¹²	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
4 ¹¹	Modeling extended contacts for nanotube and graphene devices. <i>Physical Review B</i> , 2008 , 77,	3.3	61
4 ¹⁰	ac conductance of a quantum wire with electron-electron interactions. <i>Physical Review B</i> , 1998 , 57, 1515-1526	3.3	60
4 ⁰⁹	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
4 ⁰⁸	The catalytic potential of high-dielectrics for graphene formation. <i>Applied Physics Letters</i> , 2011 , 98, 073110	3.4	57
4 ⁰⁷	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. <i>Nature Communications</i> , 2019 , 10, 2466	17.4	56
4 ⁰⁶	Organic Zener diodes: tunneling across the gap in organic semiconductor materials. <i>Nano Letters</i> , 2010 , 10, 4929-34	11.5	56
4 ⁰⁵	Dissipative effects in the electronic transport through DNA molecular wires. <i>Physical Review B</i> , 2005 , 71,	3.3	56

404	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
403	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
402	ac transport in graphene-based Fabry-Pérot devices. <i>Physical Review B</i> , 2010 , 81,	3.3	54
401	Effects of domains in phonon conduction through hybrid boron nitride and graphene sheets. <i>Physical Review B</i> , 2011 , 84,	3.3	53
400	Tetracene Formation by On-Surface Reduction. <i>ACS Nano</i> , 2016 , 10, 4538-42	16.7	52
399	Moving nanostructures: pulse-induced positioning of supramolecular assemblies. <i>ACS Nano</i> , 2013 , 7, 191-7	16.7	52
398	Amorphous carbon under 80 kV electron irradiation: a means to make or break graphene. <i>Advanced Materials</i> , 2012 , 24, 5630-5	24	52
397	Modeling graphene-based nanoelectromechanical devices. <i>Physical Review B</i> , 2010 , 81,	3.3	52
396	Filament depolymerization by motor molecules. <i>Physical Review Letters</i> , 2005 , 94, 108102	7.4	52
395	Enhanced Magnetoresistance in Chiral Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5453-5459	6.4	51
394	Light Weight and Flexible High-Performance Diagnostic Platform. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1517-25	10.1	50
393	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
392	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
391	Hofstadter butterflies of bilayer graphene. <i>Physical Review B</i> , 2007 , 75,	3.3	50
390	Few-Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3014-3019	16.4	48
389	Dodecacene Generated on Surface: Reopening of the Energy Gap. <i>ACS Nano</i> , 2020 , 14, 1011-1017	16.7	48
388	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
387	Silicon nanowires as versatile technology platform. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 793-799	2.5	47

386	Engineering carbon chains from mechanically stretched graphene-based materials. <i>Physical Review B</i> , 2011 , 83,	3.3	47
385	Spin-valve effect in zigzag graphene nanoribbons by defect engineering. <i>Physical Review B</i> , 2009 , 80,	3.3	47
384	A Dual-Stimuli-Responsive Sodium-Bromine Battery with Ultrahigh Energy Density. <i>Advanced Materials</i> , 2018 , 30, e1800028	24	46
383	CVD-grown horizontally aligned single-walled carbon nanotubes: synthesis routes and growth mechanisms. <i>Small</i> , 2012 , 8, 1973-92	11	46
382	Decacene: On-Surface Generation. <i>Angewandte Chemie</i> , 2017 , 129, 12107-12110	3.6	45
381	Hofstadter butterflies of carbon nanotubes: Pseudofractality of the magnetoelectronic spectrum. <i>Physical Review B</i> , 2006 , 74,	3.3	45
380	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
379	Negative Photoconductance in Heavily Doped Si Nanowire Field-Effect Transistors. <i>Nano Letters</i> , 2017 , 17, 6727-6734	11.5	44
378	Single-crystalline CdTe nanowire field effect transistors as nanowire-based photodetector. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22687-93	3.6	44
377	Materials Meets Concepts in Molecule-Based Electronics. <i>Advanced Functional Materials</i> , 2015 , 25, 1933-1954	19.54	44
376	Selection of a DNA aptamer against norovirus capsid protein VP1. <i>FEMS Microbiology Letters</i> , 2014 , 351, 162-9	2.9	44
375	Enhancing single-parameter quantum charge pumping in carbon-based devices. <i>Applied Physics Letters</i> , 2011 , 99, 092102	3.4	44
374	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
373	Imaging the electronic structure of on-surface generated hexacene. <i>Chemical Communications</i> , 2017 , 53, 1583-1586	5.8	43
372	Determination of state of charge-dependent asymmetric Butler-Volmer kinetics for Li_xCoO_2 electrode using GITT measurements. <i>Journal of Power Sources</i> , 2015 , 299, 156-161	8.9	42
371	Schottky barrier-based silicon nanowire pH sensor with live sensitivity control. <i>Nano Research</i> , 2014 , 7, 263-271	10	42
370	Disorder and dephasing effects on electron transport through conjugated molecular wires in molecular junctions. <i>Physical Review B</i> , 2012 , 85,	3.3	42
369	High-Motility Visible Light-Driven Ag/AgCl Janus Micromotors. <i>Small</i> , 2018 , 14, e1803613	11	42

368	Electrochemically Exfoliated High-Quality 2H-MoS for Multiflake Thin Film Flexible Biosensors. <i>Small</i> , 2019 , 15, e1901265	11	40
367	Nucleobase adsorbed at graphene devices: Enhance bio-sensorics. <i>Applied Physics Letters</i> , 2012 , 100, 063101	3.4	40
366	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
365	Controlling the conductance and noise of driven carbon-based Fabry-Pérot devices. <i>Applied Physics Letters</i> , 2009 , 94, 222103	3.4	39
364	Fingerprints of mesoscopic leads in the conductance of a molecular wire. <i>Chemical Physics</i> , 2002 , 281, 465-476	2.3	39
363	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
362	Dipole Assisted Photogated Switch in Spiropyran Grafted Polyaniline Nanowires. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3123-3128	3.8	37
361	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
360	Conformation dependence of DNA exciton parentage. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10428-10434	3.4	37
359	Pure-carbon ring transistor: Role of topology and structure. <i>Applied Physics Letters</i> , 2002 , 81, 850-852	3.4	36
358	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
357	Towards an optimal contact metal for CNTFETs. <i>Nanoscale</i> , 2016 , 8, 10240-51	7.7	36
356	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
355	Molecular junctions in the Coulomb blockade regime: Rectification and nesting. <i>Physical Review B</i> , 2007 , 76,	3.3	35
354	Nanowire sensors monitor bacterial growth kinetics and response to antibiotics. <i>Lab on A Chip</i> , 2017 , 17, 4283-4293	7.2	34
353	Efficient linear scaling method for computing the thermal conductivity of disordered materials. <i>Physical Review B</i> , 2011 , 83,	3.3	34
352	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
351	Vibrational effects in the linear conductance of carbon nanotubes. <i>Europhysics Letters</i> , 2005 , 71, 438-444	1.6	34

350	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
349	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
348	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
347	Contact effects in spin transport along double-helical molecules. <i>Physical Review B</i> , 2014 , 89,	3-3	33
346	Electrical transport through a mechanically gated molecular wire. <i>Physical Review B</i> , 2011 , 83,	3-3	33
345	Correlated tunneling in intramolecular carbon nanotube quantum dots. <i>Physical Review Letters</i> , 2002 , 89, 196402	7-4	33
344	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
343	Combined effect of strain and defects on the conductance of graphene nanoribbons. <i>Physical Review B</i> , 2013 , 88,	3-3	32
342	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
341	Dielectrophoretic growth of metallic nanowires and microwires: theory and experiments. <i>Langmuir</i> , 2010 , 26, 552-9	4	32
340	Electron transport in nanotube-molecular-wire hybrids. <i>Physical Review B</i> , 2001 , 63,	3-3	32
339	Exciton Binding Energy in Molecular Triads. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17088-17095	3-8	31
338	Magnetofluidic platform for multidimensional magnetic and optical barcoding of droplets. <i>Lab on A Chip</i> , 2015 , 15, 216-24	7-2	30
337	Compact Nanowire Sensors Probe Microdroplets. <i>Nano Letters</i> , 2016 , 16, 4991-5000	11-5	30
336	Optoelectronic switching of nanowire-based hybrid organic/oxide/semiconductor field-effect transistors. <i>Nano Research</i> , 2015 , 8, 1229-1240	10	30
335	Silicon-based molecular switch junctions. <i>Nano Research</i> , 2009 , 2, 648-659	10	30
334	Nonequilibrium resonant spectroscopy of molecular vibrons. <i>Physical Review B</i> , 2007 , 76,	3-3	30
333	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

332	A structural insight into mechanical strength of graphene-like carbon and carbon nitride networks. <i>Nanotechnology</i> , 2017 , 28, 055707	3.4	28
331	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
330	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
329	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
328	Electronic Resonances and Gap Stabilization of Higher Acenes on a Gold Surface. <i>ACS Nano</i> , 2018 , 12, 8506-8511	16.7	28
327	Controlled stability of molecular junctions. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8273-6	16.4	28
326	Transport and elementary excitations of a Luttinger liquid. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, L21-L26	1.8	28
325	Anomalous conductance response of DNA wires under stretching. <i>Nano Letters</i> , 2008 , 8, 3217-20	11.5	28
324	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
323	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
322	The puzzle of contrast inversion in DNA STM imaging. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14270-4	3.4	27
321	Hybrid Silicon Nanowire Devices and Their Functional Diversity. <i>Advanced Science</i> , 2019 , 6, 1900522	13.6	26
320	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
319	Confined Catalytic Janus Swimmers in a Crowded Channel: Geometry-Driven Rectification Transients and Directional Locking. <i>Small</i> , 2016 , 12, 5882-5890	11	26
318	Unveiling the Atomic Structure of Single-Wall Boron Nanotubes. <i>Advanced Functional Materials</i> , 2014 , 24, 4127-4134	15.6	26
317	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
316	Supramolecular Rotor and Translator at Work: On-Surface Movement of Single Atoms. <i>ACS Nano</i> , 2015 , 9, 8394-400	16.7	25
315	Tuning the formation of discrete coordination nanostructures. <i>Chemical Communications</i> , 2015 , 51, 12623-4	3.8	25

314	Plasmonic Biosensor Based on Vertical Arrays of Gold Nanoantennas. <i>ACS Sensors</i> , 2018 , 3, 1392-1400	9.2	25
313	Scanning tunneling spectroscopy of single DNA molecules. <i>ACS Nano</i> , 2009 , 3, 1651-6	16.7	25
312	Metamorphosis in carbon network: From penta-graphene to biphenylene under uniaxial tension. <i>FlatChem</i> , 2017 , 1, 65-73	5.1	24
311	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
310	In situ observations of self-repairing single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 81,	3.3	24
309	Visible Light Actuated Efficient Exclusion Between Plasmonic Ag/AgCl Micromotors and Passive Beads. <i>Small</i> , 2018 , 14, e1802537	11	24
308	Polycyclic heteroaromatic hydrocarbons containing a benzoisindole core. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 847-852	5.2	23
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