

Gianaurelio Cuniberti

List of Publications by Year in descending order

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496
papers

17,658
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12303

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506
docs citations

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times ranked

20088
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 2644-2650.	4.1	324
2	Control of Thermal and Electronic Transport in Defect-Engineered Graphene Nanoribbons. <i>ACS Nano</i> , 2011, 5, 3779-3787.	7.3	320
3	Charge transport in disordered graphene-based low dimensional materials. <i>Nano Research</i> , 2008, 1, 361-394.	5.8	319
4	Direct Low-Temperature Nanographene CVD Synthesis over a Dielectric Insulator. <i>ACS Nano</i> , 2010, 4, 4206-4210.	7.3	311
5	Enhanced thermoelectric figure of merit in edge-disordered zigzag graphene nanoribbons. <i>Physical Review B</i> , 2010, 81, .	1.1	274
6	Application of silicene, germanene and stanene for Na or Li ion storage: A theoretical investigation. <i>Electrochimica Acta</i> , 2016, 213, 865-870.	2.6	245
7	Charge Transport in DNA-Based Devices. <i>Topics in Current Chemistry</i> , 2004, , 183-228.	4.0	227
8	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.	4.0	211
9	Backbone-induced semiconducting behavior in shortDNAwires. <i>Physical Review B</i> , 2002, 65, .	1.1	195
10	Contact Dependence of Carrier Injection in Carbon Nanotubes: An Ab Initio Study. <i>Physical Review Letters</i> , 2006, 96, 076802.	2.9	194
11	Spin-selective transport through helical molecular systems. <i>Physical Review B</i> , 2012, 85, .	1.1	194
12	Tuning the conductance of a molecular switch. <i>Nature Nanotechnology</i> , 2007, 2, 176-179.	15.6	188
13	Carbon nanostructures as multi-functional drug delivery platforms. <i>Journal of Materials Chemistry B</i> , 2013, 1, 401-428.	2.9	186
14	Multifunctional magnetic mesoporous bioactive glass scaffolds with a hierarchical pore structure. <i>Acta Biomaterialia</i> , 2011, 7, 3563-3572.	4.1	171
15	Fuel-Free Locomotion of Janus Motors: Magnetically Induced Thermophoresis. <i>ACS Nano</i> , 2013, 7, 1360-1367.	7.3	167
16	First-principles investigation of mechanical properties of silicene, germanene and stanene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 87, 228-232.	1.3	158
17	Chirality-Dependent Electron Spin Filtering by Molecular Monolayers of Helicenes. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2025-2030.	2.1	154
18	Efficient Calculation of Charge-Transfer Matrix Elements for Hole Transfer in DNA. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7937-7947.	1.2	150

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19	Decacene: On-Surface Generation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11945-11948.	7.2	146
20	Electronic structure of single DNA molecules resolved by transverse scanning tunnelling spectroscopy. <i>Nature Materials</i> , 2008, 7, 68-74.	13.3	140
21	Coordination Polymer Framework Based On-Chip Micro-Supercapacitors with AC Line-Filtering Performance. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3920-3924.	7.2	140
22	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.	5.1	133
23	Engineering crystalline quasi-two-dimensional polyaniline thin film with enhanced electrical and chemiresistive sensing performances. <i>Nature Communications</i> , 2019, 10, 4225.	5.8	132
24	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.	1.3	130
25	Graphene: Piecing it Together. <i>Advanced Materials</i> , 2011, 23, 4471-4490.	11.1	127
26	Reusability of photocatalytic TiO ₂ and ZnO nanoparticles immobilized in poly(vinylidene fluoride) thin films. <i>Journal of Materials Chemistry</i> , 2010, 20, 4621-4628.	3.1	122
27	Synthesis and characterization of carbon nanowalls on different substrates by radio frequency plasma enhanced chemical vapor deposition. <i>Carbon</i> , 2014, 72, 372-380.	5.4	121
28	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, 11606-11615.	6.6	121
29	In Situ Observations of Free-Standing Graphene-like Mono- and Bilayer ZnO Membranes. <i>ACS Nano</i> , 2015, 9, 11408-11413.	7.3	118
30	Vibrational modes and low-temperature thermal properties of graphene and carbon nanotubes: Minimal force-constant model. <i>Physical Review B</i> , 2008, 78, .	1.1	117
31	A bottom-up route to enhance thermoelectric figures of merit in graphene nanoribbons. <i>Scientific Reports</i> , 2013, 3, 1228.	1.6	117
32	Electron-beam induced synthesis of nanostructures: a review. <i>Nanoscale</i> , 2016, 8, 11340-11362.	2.8	116
33	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.	7.2	116
34	Dynamic and Electronic Transport Properties of DNA Translocation through Graphene Nanopores. <i>Nano Letters</i> , 2013, 13, 1969-1976.	4.5	115
35	Bioactive SrO-SiO ₂ glass with well-ordered mesopores: Characterization, physiochemistry and biological properties. <i>Acta Biomaterialia</i> , 2011, 7, 1797-1806.	4.1	113
36	Mechanical properties and thermal conductivity of graphitic carbon nitride: A molecular dynamics study. <i>Computational Materials Science</i> , 2015, 99, 285-289.	1.4	112

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37	Highly Conductive Boron Nanotubes: Transport Properties, Work Functions, and Structural Stabilities. <i>ACS Nano</i> , 2011, 5, 4997-5005.	7.3	106
38	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.	4.0	106
39	Modeling Spin Transport in Helical Fields: Derivation of an Effective Low-Dimensional Hamiltonian. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22276-22284.	1.5	103
40	Insight into doping efficiency of organic semiconductors from the analysis of the density of states in n-doped C60 and ZnPc. <i>Nature Materials</i> , 2018, 17, 439-444.	13.3	101
41	Impact of molecular quadrupole moments on the energy levels at organic heterojunctions. <i>Nature Communications</i> , 2019, 10, 2466.	5.8	101
42	Phonon Engineering in Carbon Nanotubes by Controlling Defect Concentration. <i>Nano Letters</i> , 2011, 11, 4971-4977.	4.5	99
43	Atomistic modeling of mechanical properties of polycrystalline graphene. <i>Nanotechnology</i> , 2014, 25, 215704.	1.3	99
44	Multiscale modeling of thermal conductivity of polycrystalline graphene sheets. <i>Nanoscale</i> , 2014, 6, 3344-3352.	2.8	98
45	Multimetallic Hierarchical Aerogels: Shape Engineering of the Building Blocks for Efficient Electrocatalysis. <i>Advanced Materials</i> , 2017, 29, 1605254.	11.1	98
46	Dodecacene Generated on Surface: Reopening of the Energy Gap. <i>ACS Nano</i> , 2020, 14, 1011-1017.	7.3	98
47	Engineering the figure of merit and thermopower in single-molecule devices connected to semiconducting electrodes. <i>Physical Review B</i> , 2010, 81, .	1.1	91
48	Electrical Conductance in Biological Molecules. <i>Advanced Functional Materials</i> , 2010, 20, 1865-1883.	7.8	90
49	Mechanical properties of polycrystalline boron-nitride nanosheets. <i>RSC Advances</i> , 2014, 4, 19137-19143.	1.7	90
50	A Stable Saddle-Shaped Polycyclic Hydrocarbon with an Open-Shell Singlet Ground State. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3280-3284.	7.2	90
51	Persulfurated Coronene: A New Generation of "Sulflower". <i>Journal of the American Chemical Society</i> , 2017, 139, 2168-2171.	6.6	89
52	Synthesis of Vinylene-Linked Two-Dimensional Conjugated Polymers via the Horner-Wadsworth-Emmons Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23620-23625.	7.2	86
53	Propagation scheme for nonequilibrium dynamics of electron transport in nanoscale devices. <i>Physical Review B</i> , 2009, 80, .	1.1	84
54	Effects of Al-doping on the properties of Li-Mn-Ni-O cathode materials for Li-ion batteries: an ab initio study. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9273.	5.2	84

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55	Control over Janus micromotors by the strength of a magnetic field. <i>Nanoscale</i> , 2013, 5, 1332-1336.	2.8	84
56	Anisotropic Thermoelectric Response in Two-Dimensional Puckered Structures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18841-18849.	1.5	84
57	Understanding the catalyst-free transformation of amorphous carbon into graphene by current-induced annealing. <i>Scientific Reports</i> , 2013, 3, .	1.6	82
58	Photocatalytic degradation of pharmaceuticals present in conventional treated wastewater by nanoparticle suspensions. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 287-292.	3.3	82
59	Theory of an all-carbon molecular switch. <i>Physical Review B</i> , 2002, 65, .	1.1	81
60	Synthesis of carbon nanotubes with and without catalyst particles. <i>Nanoscale Research Letters</i> , 2011, 6, 303.	3.1	81
61	Charge Transport through Biomolecular Wires in a Solvent: Bridging Molecular Dynamics and Model Hamiltonian Approaches. <i>Physical Review Letters</i> , 2009, 102, 208102.	2.9	80
62	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.	1.2	78
63	High-Performance Three-Dimensional Tubular Nanomembrane Sensor for DNA Detection. <i>Nano Letters</i> , 2016, 16, 4288-4296.	4.5	78
64	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.	1.7	76
65	A Chirality-Based Quantum Leap. <i>ACS Nano</i> , 2022, 16, 4989-5035.	7.3	74
66	Absorption Tails of Donor:C ₆₀ Blends Provide Insight into Thermally Activated Charge-Transfer Processes and Polaron Relaxation. <i>Journal of the American Chemical Society</i> , 2017, 139, 1699-1704.	6.6	73
67	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, .	1.1	72
68	Modeling extended contacts for nanotube and graphene devices. <i>Physical Review B</i> , 2008, 77, .	1.1	71
69	ac transport in graphene-based Fabry-Pérot devices. <i>Physical Review B</i> , 2010, 81, .	1.1	70
70	Organometallic Complexes of Graphene: Toward Atomic Spintronics Using a Graphene Web. <i>ACS Nano</i> , 2011, 5, 9939-9949.	7.3	70
71	Theoretical Insight into High-Efficiency Triple-Junction Tandem Solar Cells via the Band Engineering of Antimony Chalcogenides. <i>Solar Rrl</i> , 2021, 5, 2000800.	3.1	70
72	Negative Photoconductance in Heavily Doped Si Nanowire Field-Effect Transistors. <i>Nano Letters</i> , 2017, 17, 6727-6734.	4.5	69

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73	Enhanced Magnetoresistance in Chiral Molecular Junctions. Journal of Physical Chemistry Letters, 2018, 9, 5453-5459.	2.1	69
74	Quantum Transport through a DNA Wire in a Dissipative Environment. Nano Letters, 2005, 5, 1093-1097.	4.5	68
75	Effects of domains in phonon conduction through hybrid boron nitride and graphene sheets. Physical Review B, 2011, 84, .	1.1	66
76	Inelastic quantum transport in a ladder model: Implications for DNA conduction and comparison to experiments on suspended DNA oligomers. Physical Review B, 2006, 74, .	1.1	65
77	Electrochemically Exfoliated High-Quality 2H-MoS ₂ for Multiflake Thin Film Flexible Biosensors. Small, 2019, 15, e1901265.	5.2	65
78	Organic Zener Diodes: Tunneling across the Gap in Organic Semiconductor Materials. Nano Letters, 2010, 10, 4929-4934.	4.5	64
79	Coverage-Driven Electronic Decoupling of Fe-Phthalocyanine from a Ag(111) Substrate. Journal of Physical Chemistry C, 2011, 115, 12173-12179.	1.5	64
80	Exciton Binding Energy in Molecular Triads. Journal of Physical Chemistry C, 2017, 121, 17088-17095.	1.5	64
81	The catalytic potential of high- ϵ dielectrics for graphene formation. Applied Physics Letters, 2011, 98, .	1.5	63
82	ac conductance of a quantum wire with electron-electron interactions. Physical Review B, 1998, 57, 1515-1526.	1.1	61
83	Silicon nanowires – a versatile technology platform. Physica Status Solidi - Rapid Research Letters, 2013, 7, 793-799.	1.2	61
84	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. Nano-Micro Letters, 2021, 13, 143.	14.4	61
85	Determination of state of charge-dependent asymmetric Butler-Volmer kinetics for LiCoO ₂ electrode using GITT measurements. Journal of Power Sources, 2015, 299, 156-161.	4.0	60
86	Tetracene Formation by On-Surface Reduction. ACS Nano, 2016, 10, 4538-4542.	7.3	60
87	Dissipative effects in the electronic transport through DNA molecular wires. Physical Review B, 2005, 71, .	1.1	59
88	Hofstadter butterflies of bilayer graphene. Physical Review B, 2007, 75, .	1.1	59
89	Amorphous Carbon under 80 kV Electron Irradiation: A Means to Make or Break Graphene. Advanced Materials, 2012, 24, 5630-5635.	11.1	59
90	Ciprofloxacin wastewater treated by UVA photocatalysis: contribution of irradiated TiO ₂ and ZnO nanoparticles on the final toxicity as assessed by Vibrio fischeri. RSC Advances, 2016, 6, 95494-95503.	1.7	59

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91	Few-layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3014-3019.	7.2	59
92	Enhancing single-parameter quantum charge pumping in carbon-based devices. <i>Applied Physics Letters</i> , 2011, 99, 092102.	1.5	58
93	Light Weight and Flexible High-Performance Diagnostic Platform. <i>Advanced Healthcare Materials</i> , 2015, 4, 1517-1525.	3.9	58
94	Moving Nanostructures: Pulse-Induced Positioning of Supramolecular Assemblies. <i>ACS Nano</i> , 2013, 7, 191-197.	7.3	57
95	Filament Depolymerization by Motor Molecules. <i>Physical Review Letters</i> , 2005, 94, 108102.	2.9	56
96	Spin-valve effect in zigzag graphene nanoribbons by defect engineering. <i>Physical Review B</i> , 2009, 80, .	1.1	56
97	Modeling graphene-based nanoelectromechanical devices. <i>Physical Review B</i> , 2010, 81, .	1.1	56
98	A Dual-Stimuli-Responsive Sodium-Bromine Battery with Ultrahigh Energy Density. <i>Advanced Materials</i> , 2018, 30, e1800028.	11.1	56
99	High-Motility Visible Light-Driven Ag/AgCl Janus Micromotors. <i>Small</i> , 2018, 14, e1803613.	5.2	56
100	Parallel arrays of Schottky barrier nanowire field effect transistors: Nanoscopic effects for macroscopic current output. <i>Nano Research</i> , 2013, 6, 381-388.	5.8	55
101	Reconstructing the Thermal Green Functions at Real Times from Those at Imaginary Times. <i>Communications in Mathematical Physics</i> , 2001, 216, 59-83.	1.0	54
102	Single-crystalline CdTe nanowire field effect transistors as nanowire-based photodetector. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22687-22693.	1.3	54
103	Towards an optimal contact metal for CNTFETs. <i>Nanoscale</i> , 2016, 8, 10240-10251.	2.8	54
104	Imaging the electronic structure of on-surface generated hexacene. <i>Chemical Communications</i> , 2017, 53, 1583-1586.	2.2	54
105	Decacene: On-Surface Generation. <i>Angewandte Chemie</i> , 2017, 129, 12107-12110.	1.6	54
106	Hybrid Silicon Nanowire Devices and Their Functional Diversity. <i>Advanced Science</i> , 2019, 6, 1900522.	5.6	54
107	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.	1.2	53
108	Controlling the conductance and noise of driven carbon-based Fabry-Pérot devices. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	52

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109	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.	1.2	52
110	Selection of a DNA aptamer against norovirus capsid protein VP1. <i>FEMS Microbiology Letters</i> , 2014, 351, 162-169.	0.7	52
111	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.	4.0	52
112	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.	2.0	52
113	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	51
114	Hofstadter butterflies of carbon nanotubes: Pseudofractality of the magnetoelectronic spectrum. <i>Physical Review B</i> , 2006, 74, .	1.1	50
115	Engineering carbon chains from mechanically stretched graphene-based materials. <i>Physical Review B</i> , 2011, 83, .	1.1	50
116	Enhanced Photocatalytic Activity of Au/TiO ₂ Nanoparticles against Ciprofloxacin. <i>Catalysts</i> , 2020, 10, 234.	1.6	50
117	CVD-Grown Horizontally Aligned Single-Walled Carbon Nanotubes: Synthesis Routes and Growth Mechanisms. <i>Small</i> , 2012, 8, 1973-1992.	5.2	49
118	Investigating the Outskirts of Fe and Co Catalyst Particles in Alumina-Supported Catalytic CVD Carbon Nanotube Growth. <i>ACS Nano</i> , 2010, 4, 1146-1152.	7.3	48
119	Disorder and dephasing effects on electron transport through conjugated molecular wires in molecular junctions. <i>Physical Review B</i> , 2012, 85, .	1.1	48
120	Materials Meets Concepts in Molecule-Based Electronics. <i>Advanced Functional Materials</i> , 2015, 25, 1933-1954.	7.8	47
121	Nanowire sensors monitor bacterial growth kinetics and response to antibiotics. <i>Lab on A Chip</i> , 2017, 17, 4283-4293.	3.1	47
122	Efficient linear scaling method for computing the thermal conductivity of disordered materials. <i>Physical Review B</i> , 2011, 83, .	1.1	46
123	Contact effects in spin transport along double-helical molecules. <i>Physical Review B</i> , 2014, 89, .	1.1	46
124	Metamorphosis in carbon network: From penta-graphene to biphenylene under uniaxial tension. <i>FlatChem</i> , 2017, 1, 65-73.	2.8	46
125	Highly sensitive room temperature ammonia gas sensor using pristine graphene: The role of biocompatible stabilizer. <i>Carbon</i> , 2021, 173, 262-270.	5.4	46
126	Synthesis of Wafer-Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. <i>Advanced Materials Technologies</i> , 2021, 6, 2000744.	3.0	46

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127	Dipole Assisted Photogated Switch in Spiropyran Grafted Polyaniline Nanowires. Journal of Physical Chemistry C, 2011, 115, 3123-3128.	1.5	45
128	Nucleobase adsorbed at graphene devices: Enhance bio-sensorics. Applied Physics Letters, 2012, 100, 063101.	1.5	45
129	Schottky barrier-based silicon nanowire pH sensor with live sensitivity control. Nano Research, 2014, 7, 263-271.	5.8	45
130	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. ACS Sensors, 2021, 6, 3841-3881.	4.0	45
131	Chirality-Induced Spin Selectivity in a Coarse-Grained Tight-Binding Model for Helicene. Journal of Physical Chemistry C, 2019, 123, 27230-27241.	1.5	44
132	Epitaxial Growth of Vertically Aligned Antimony Selenide Nanorod Arrays for Heterostructure Based Self-Powered Photodetector. Advanced Optical Materials, 2022, 10, .	3.6	44
133	Ultrasensitive detection of Ebola matrix protein in a memristor mode. Nano Research, 2018, 11, 1057-1068.	5.8	43
134	Fingerprints of mesoscopic leads in the conductance of a molecular wire. Chemical Physics, 2002, 281, 465-476.	0.9	42
135	Electronic Resonances and Gap Stabilization of Higher Acenes on a Gold Surface. ACS Nano, 2018, 12, 8506-8511.	7.3	42
136	Phonon transport in large scale carbon-based disordered materials: Implementation of an efficient order- N and real-space Kubo methodology. Physical Review B, 2010, 82, .	1.1	41
137	Orthogonal experimental design of titanium dioxide-Poly(methyl methacrylate) electrospun nanocomposite membranes for photocatalytic applications. Journal of Environmental Chemical Engineering, 2016, 4, 3151-3158.	3.3	41
138	Green Function Techniques in the Treatment of Quantum Transport at the Molecular Scale. Springer Series in Chemical Physics, 2009, , 213-335.	0.2	40
139	Fully sp^2 -Carbon-Linked Crystalline Two-Dimensional Conjugated Polymers: Insight into 2D Poly(phenylenecyanovinylene) Formation and its Optoelectronic Properties. Chemistry - A European Journal, 2019, 25, 6562-6568.	1.7	40
140	Volatility in the Italian stock market: an empirical study. Physica A: Statistical Mechanics and Its Applications, 1999, 269, 148-155.	1.2	39
141	Conformation Dependence of DNA Exciton Parentage. Journal of Physical Chemistry B, 2009, 113, 10428-10435.	1.2	39
142	Pure-carbon ring transistor: Role of topology and structure. Applied Physics Letters, 2002, 81, 850-852.	1.5	38
143	Vibrational effects in the linear conductance of carbon nanotubes. Europhysics Letters, 2005, 71, 438-444.	0.7	38
144	Molecular junctions in the Coulomb blockade regime: Rectification and nesting. Physical Review B, 2007, 76, .	1.1	38

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145	<i>In situ</i> preparation and protein delivery of silicate–alginate composite microspheres with core-shell structure. <i>Journal of the Royal Society Interface</i> , 2011, 8, 1804-1814.	1.5	38
146	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, 11677-11680.	2.2	38
147	Electrical transport through a mechanically gated molecular wire. <i>Physical Review B</i> , 2011, 83, .	1.1	37
148	Diameter-Selective Dispersion of Carbon Nanotubes <i>via</i> Polymers: A Competition between Adsorption and Bundling. <i>ACS Nano</i> , 2015, 9, 9012-9019.	7.3	37
149	Compact Nanowire Sensors Probe Microdroplets. <i>Nano Letters</i> , 2016, 16, 4991-5000.	4.5	37
150	Electrochemical detection of ascorbic acid in artificial sweat using a flexible alginate/CuO-modified electrode. <i>Mikrochimica Acta</i> , 2020, 187, 520.	2.5	37
151	Intrinsic plasticity of silicon nanowire neurotransistors for dynamic memory and learning functions. <i>Nature Electronics</i> , 2020, 3, 398-408.	13.1	37
152	Plasmonic Biosensor Based on Vertical Arrays of Gold Nanoantennas. <i>ACS Sensors</i> , 2018, 3, 1392-1400.	4.0	36
153	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.	1.6	36
154	Influence of side groups on the performance of infrared absorbing azabodipy organic solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2747-2753.	0.8	35
155	Visible Light Actuated Efficient Exclusion Between Plasmonic Ag/AgCl Micromotors and Passive Beads. <i>Small</i> , 2018, 14, e1802537.	5.2	35
156	Role of Exchange Interactions in the Magnetic Response and Intermolecular Recognition of Chiral Molecules. <i>Nano Letters</i> , 2020, 20, 7077-7086.	4.5	35
157	Electron transport in nanotube–molecular-wire hybrids. <i>Physical Review B</i> , 2001, 63, .	1.1	34
158	Combined effect of strain and defects on the conductance of graphene nanoribbons. <i>Physical Review B</i> , 2013, 88, .	1.1	34
159	Efficient auxiliary-mode approach for time-dependent nanoelectronics. <i>New Journal of Physics</i> , 2016, 18, 093044.	1.2	34
160	Confined Catalytic Janus Swimmers in a Crowded Channel: Geometry-Driven Rectification Transients and Directional Locking. <i>Small</i> , 2016, 12, 5882-5890.	5.2	34
161	On-water surface synthesis of charged two-dimensional polymer single crystals via the irreversible Katritzky reaction. , 2022, 1, 69-76.		34
162	Correlated Tunneling in Intramolecular Carbon Nanotube Quantum Dots. <i>Physical Review Letters</i> , 2002, 89, 196402.	2.9	33

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163	Nonequilibrium resonant spectroscopy of molecular vibrons. <i>Physical Review B</i> , 2007, 76, .	1.1	33
164	Atomically Precise Prediction of 2D Self-Assembly of Weakly Bonded Nanostructures: STM Insight into Concentration-Dependent Architectures. <i>Small</i> , 2016, 12, 343-350.	5.2	33
165	Silicon-based molecular switch junctions. <i>Nano Research</i> , 2009, 2, 648-659.	5.8	32
166	Dielectrophoretic Growth of Metallic Nanowires and Microwires: Theory and Experiments. <i>Langmuir</i> , 2010, 26, 552-559.	1.6	32
167	Optoelectronic switching of nanowire-based hybrid organic/oxide/semiconductor field-effect transistors. <i>Nano Research</i> , 2015, 8, 1229-1240.	5.8	32
168	Magnetofluidic platform for multidimensional magnetic and optical barcoding of droplets. <i>Lab on A Chip</i> , 2015, 15, 216-224.	3.1	32
169	A structural insight into mechanical strength of graphene-like carbon and carbon nitride networks. <i>Nanotechnology</i> , 2017, 28, 055707.	1.3	32
170	Stimulation of bone formation by monocyte-activator functionalized graphene oxide <i>in vivo</i> . <i>Nanoscale</i> , 2019, 11, 19408-19421.	2.8	32
171	Two-Dimensional SiP, SiAs, GeP and GeAs as Promising Candidates for Photocatalytic Applications. <i>Coatings</i> , 2019, 9, 522.	1.2	32
172	Photocatalytic Microporous Membrane against the Increasing Problem of Water Emerging Pollutants. <i>Materials</i> , 2019, 12, 1649.	1.3	32
173	Supramolecular Rotor and Translator at Work: On-Surface Movement of Single Atoms. <i>ACS Nano</i> , 2015, 9, 8394-8400.	7.3	31
174	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, 4578-4584.	4.5	31
175	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.	3.2	31
176	Determining the Diffusion Coefficient of Lithium Insertion Cathodes from GITT measurements: Theoretical Analysis for low Temperatures**. <i>ChemPhysChem</i> , 2021, 22, 885-893.	1.0	30
177	Fermi Liquids and Luttinger Liquids. <i>Springer Series in Solid-state Sciences</i> , 2000, , 9-81.	0.3	29
178	The Puzzle of Contrast Inversion in DNA STM Imaging. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14270-14274.	1.2	29
179	Controlled Stability of Molecular Junctions. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8273-8276.	7.2	29
180	Unveiling the Atomic Structure of Single-Wall Boron Nanotubes. <i>Advanced Functional Materials</i> , 2014, 24, 4127-4134.	7.8	29

#	ARTICLE	IF	CITATIONS
181	Thermal bridging of graphene nanosheets via covalent molecular junctions: A non-equilibrium Greenâ€™s functionsâ€™ density functional tight-binding study. Nano Research, 2019, 12, 791-799.	5.8	29
182	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. JPhys Materials, 2020, 3, 034009.	1.8	29
183	Transport and elementary excitations of a Luttinger liquid. Journal of Physics Condensed Matter, 1996, 8, L21-L26.	0.7	28
184	Anomalous Conductance Response of DNA Wires under Stretching. Nano Letters, 2008, 8, 3217-3220.	4.5	28
185	Patterned Biochemical Functionalization Improves Aptamer-Based Detection of Unlabeled Thrombin in a Sandwich Assay. ACS Applied Materials & Interfaces, 2013, 5, 12029-12035.	4.0	28
186	Thermal Decoherence and Disorder Effects on Chiral-Induced Spin Selectivity. Journal of Physical Chemistry Letters, 2018, 9, 5753-5758.	2.1	28
187	Photocatalytic degradation of ciprofloxacin in water at nano-ZnO prepared by pulse alternating current electrochemical synthesis. Journal of Water Process Engineering, 2021, 40, 101809.	2.6	28
188	Giant magnetoresistance of multiwall carbon nanotubes: Modeling the tube/ferromagnetic-electrode burying contact. Physical Review B, 2004, 69, .	1.1	27
189	Scanning Tunneling Spectroscopy of Single DNA Molecules. ACS Nano, 2009, 3, 1651-1656.	7.3	27
190	Lightâ€™fieldâ€™ characterization in a continuous hydrogenâ€™producing photobioreactor by optical simulation and computational fluid dynamics. Biotechnology and Bioengineering, 2015, 112, 2439-2449.	1.7	27
191	Tuning the formation of discrete coordination nanostructures. Chemical Communications, 2015, 51, 12621-12624.	2.2	27
192	Printable Parallel Arrays of Si Nanowire Schottky-Barrier-FETs With Tunable Polarity for Complementary Logic. IEEE Nanotechnology Magazine, 2016, 15, 549-556.	1.1	27
193	Enhancement of thermal transport properties of asymmetric Graphene/hBN nanoribbon heterojunctions by substrate engineering. Carbon, 2017, 124, 642-650.	5.4	27
194	SCC-DFTB Parametrization for Boron and Boranes. Journal of Chemical Theory and Computation, 2012, 8, 1153-1163.	2.3	26
195	Modeling charge transport in DNA using multiâ€™scale methods. Physica Status Solidi (B): Basic Research, 2013, 250, 2277-2287.	0.7	26
196	Switchable Negative Differential Resistance Induced by Quantum Interference Effects in Porphyrin-based Molecular Junctions. Journal of Physical Chemistry Letters, 2015, 6, 3950-3955.	2.1	26
197	From Fluorine to Fluoreneâ€™A Route to Thermally Stable <i>aza</i>-BODIPYs for Organic Solar Cell Application. Advanced Electronic Materials, 2016, 2, 1600152.	2.6	26
198	In-Situ Stretching Patterned Graphene Nanoribbons in the Transmission Electron Microscope. Scientific Reports, 2017, 7, 211.	1.6	26

#	ARTICLE	IF	CITATIONS
199	Nanosensor-Based Real-Time Monitoring of Stress Biomarkers in Human Saliva Using a Portable Measurement System. ACS Sensors, 2020, 5, 4081-4091.	4.0	26
200	Enhanced visible-light photodegradation of fluoroquinolone-based antibiotics and <i>E. coli</i> growth inhibition using Ag@TiO ₂ nanoparticles. RSC Advances, 2021, 11, 13980-13991.	1.7	26
201	Controlling the conductance of molecular wires by defect engineering. New Journal of Physics, 2010, 12, 063004.	1.2	25
202	A parabolic model to control quantum interference in T-shaped molecular junctions. Physical Chemistry Chemical Physics, 2013, 15, 13951.	1.3	25
203	Biotechnological hydrogen production by photosynthesis. Engineering in Life Sciences, 2014, 14, 592-606.	2.0	25
204	DFT study of reaction processes of methane combustion on PdO(100). Chemical Physics, 2014, 443, 53-60.	0.9	25
205	Modeling of photocatalytic degradation of organic components in water by nanoparticle suspension. Chemical Engineering Journal, 2015, 261, 67-75.	6.6	25
206	Boron-Doped Single-Walled Carbon Nanotubes with Enhanced Thermoelectric Power Factor for Flexible Thermoelectric Devices. ACS Applied Energy Materials, 2020, 3, 2556-2564.	2.5	25
207	Charge-memory polaron effect in molecular junctions. Physical Review B, 2008, 78, .	1.1	24
208	In situ observations of self-repairing single-walled carbon nanotubes. Physical Review B, 2010, 81, .	1.1	24
209	Understanding High-Yield Catalyst-Free Growth of Horizontally Aligned Single-Walled Carbon Nanotubes Nucleated by Activated C60 Species. ACS Nano, 2012, 6, 10825-10834.	7.3	24
210	Magneto-resistive Emulsion Analyzer. Scientific Reports, 2013, 3, 2548.	1.6	24
211	Lateral damage in graphene carved by high energy focused gallium ion beams. Applied Physics Letters, 2015, 107, .	1.5	24
212	Unimolecular Logic Gate with Classical Input by Single Gold Atoms. ACS Nano, 2018, 12, 1139-1145.	7.3	24
213	Effective Hamiltonian model for helically constrained quantum systems within adiabatic perturbation theory: Application to the chirality-induced spin selectivity (CISS) effect. Journal of Chemical Physics, 2020, 152, 214105.	1.2	24
214	Defective transport properties of three-terminal carbon nanotube junctions. Physical Review B, 2005, 71, .	1.1	23
215	Nonadiabatic electron pumping through interacting quantum dots. Physical Review B, 2012, 85, .	1.1	23
216	Polycyclic heteroaromatic hydrocarbons containing a benzoisindole core. Organic Chemistry Frontiers, 2017, 4, 847-852.	2.3	23

#	ARTICLE	IF	CITATIONS
217	Edge magnetism impact on electrical conductance and thermoelectric properties of graphenelike nanoribbons. <i>Physical Review B</i> , 2017, 96, .	1.1	23
218	On-surface synthesis of nitrogen-doped nanographenes with 5-7 membered rings. <i>Chemical Communications</i> , 2019, 55, 4731-4734.	2.2	23
219	Emerging Internet of Things driven carbon nanotubes-based devices. <i>Nano Research</i> , 2022, 15, 4613-4637.	5.8	23
220	Combination of Knoevenagel Polycondensation and Water-Assisted Dynamic Michael-Addition-Elimination for the Synthesis of Vinylene-Linked 2D Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	23
221	Dimerization of Radical-Anions: Nitride Clusterfullerenes versus Empty Fullerenes. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1592-1600.	2.1	22
222	Quantum interference in thermoelectric molecular junctions: A toy model perspective. <i>Journal of Applied Physics</i> , 2014, 116, 074308.	1.1	22
223	A simple two-step silane-based (bio-) receptor molecule immobilization without additional binding site passivation. <i>RSC Advances</i> , 2015, 5, 35631-35634.	1.7	22
224	Bottom-up synthesis of ultrathin straight platinum nanowires: Electric field impact. <i>Nano Research</i> , 2013, 6, 303-311.	5.8	21
225	Determination of the Young's modulus of porous Å-type Ti-40Nb by finite element analysis. <i>Materials & Design</i> , 2014, 64, 1-8.	5.1	21
226	Enhanced thermoelectric figure of merit in polycrystalline carbon nanostructures. <i>Physical Review B</i> , 2015, 92, .	1.1	21
227	Bipolar nitrogen-doped graphene frameworks as high-performance cathodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1588-1594.	5.2	21
228	Copper Electroplating with Polyethylene Glycol. <i>Journal of the Electrochemical Society</i> , 2017, 164, D196-D203.	1.3	21
229	Inducing the controlled rotation of single o-MeO-DMBI molecules anchored on Au(111). <i>Surface Science</i> , 2018, 678, 177-182.	0.8	21
230	Density Functional Tight Binding for Quantum Plasmonics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19756-19766.	1.5	21
231	Selective and self-validating breath-level detection of hydrogen sulfide in humid air by gold nanoparticle-functionalized nanotube arrays. <i>Nano Research</i> , 2022, 15, 2512-2521.	5.8	21
232	Charge-memory effect in a polaron model: equation-of-motion method for Green functions. <i>New Journal of Physics</i> , 2008, 10, 085002.	1.2	20
233	Superhydrophobic carbon nanotube/silicon carbide nanowire nanocomposites. <i>Materials and Design</i> , 2015, 87, 198-204.	3.3	20
234	Copper Induced Conformational Changes of Tripeptide Monolayer Based Impedimetric Biosensor. <i>Scientific Reports</i> , 2017, 7, 9498.	1.6	20

#	ARTICLE	IF	CITATIONS
235	Polymerization driven monomer passage through monolayer chemical vapour deposition graphene. Nature Communications, 2018, 9, 4051.	5.8	20
236	Boron Doping of SWCNTs as a Way to Enhance the Thermoelectric Properties of Melt-Mixed Polypropylene/SWCNT Composites. Energies, 2020, 13, 394.	1.6	20
237	The Role of Contacts in Molecular Electronics. , 2002, , 133-149.		20
238	Tight-Binding Modeling of Charge Migration in DNA Devices. Nanoscience and Technology, 2007, , 1-20.	1.5	19
239	Exposing Multiple Roles of H ₂ O in High-Temperature Enhanced Carbon Nanotube Synthesis. Chemistry of Materials, 2008, 20, 6586-6588.	3.2	19
240	Nanoscale ear drum: Graphene based nanoscale sensors. Nanoscale, 2012, 4, 3168.	2.8	19
241	Molecular design driving tetraporphyrin self-assembly on graphite: a joint STM, electrochemical and computational study. Nanoscale, 2016, 8, 13678-13686.	2.8	19
242	Tuning quantum electron and phonon transport in two-dimensional materials by strain engineering: a Green's function based study. Physical Chemistry Chemical Physics, 2017, 19, 1487-1495.	1.3	19
243	Transmitting Stepwise Rotation among Three Molecule-Gear on the Au(111) Surface. Journal of Physical Chemistry Letters, 2020, 11, 6892-6899.	2.1	19
244	Inverse Solidification Induced by Active Janus Particles. Advanced Functional Materials, 2020, 30, 2003851.	7.8	19
245	Fullerene based devices for molecular electronics. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 749-752.	1.3	18
246	Quantum transport through STM-lifted single PTCDA molecules. Applied Physics A: Materials Science and Processing, 2008, 93, 335-343.	1.1	18
247	Dissociative Adsorption of Methane on Surface Oxide Structures of Pd~Pt Alloys. Journal of Physical Chemistry C, 2009, 113, 21097-21105.	1.5	18
248	Charge migration through DNA molecules in the presence of mismatches. Physical Review B, 2010, 82, .	1.1	18
249	Dielectrophoretic Growth of Platinum Nanowires: Concentration and Temperature Dependence of the Growth Velocity. Langmuir, 2012, 28, 7498-7504.	1.6	18
250	Light-Induced Contraction/Expansion of 1D Photoswitchable Metallopolymer Monitored at the Solid-Liquid Interface. Small, 2017, 13, 1701790.	5.2	18
251	On-Surface Annulation Reaction Cascade for the Selective Synthesis of Diindenopyrene. ACS Nano, 2017, 11, 12419-12425.	7.3	18
252	First-principles investigation of Ag-, Co-, Cr-, Cu-, Fe-, Mn-, Ni-, Pd- and Rh-hexaaminobenzene 2D metal-organic frameworks. Materials Today Energy, 2018, 10, 336-342.	2.5	18

#	ARTICLE	IF	CITATIONS
253	Gating Hysteresis as an Indicator for Silicon Nanowire FET Biosensors. Applied Sciences (Switzerland), 2018, 8, 950.	1.3	18
254	Synthese von Vinylätherknäpfen zweidimensionalen konjugierten Polymeren via Horner-Wadsworth-Emmons-Reaktion. Angewandte Chemie, 2020, 132, 23827-23832.	1.6	18
255	Surface Modification of Silicon Nanowire Based Field Effect Transistors with Stimuli Responsive Polymer Brushes for Biosensing Applications. Micromachines, 2020, 11, 274.	1.4	18
256	Multi-walled carbon nanotube dispersion methodologies in alkaline media and their influence on mechanical reinforcement of alkali-activated nanocomposites. Composites Part B: Engineering, 2021, 209, 108559.	5.9	18
257	Machine Learning-Enabled Smart Gas Sensing Platform for Identification of Industrial Gases. Advanced Intelligent Systems, 2022, 4, .	3.3	18
258	Change of mechanical vertebrae properties due to progressive osteoporosis: combined biomechanical and finite-element analysis within a rat model. Medical and Biological Engineering and Computing, 2014, 52, 405-414.	1.6	17
259	Non-covalent modified multi-walled carbon nanotubes: dispersion capabilities and interactions with bacteria. Biomedical Physics and Engineering Express, 2016, 2, 055008.	0.6	17
260	Developing a Customized Perfusion Bioreactor Prototype with Controlled Positional Variability in Oxygen Partial Pressure for Bone and Cartilage Tissue Engineering. Tissue Engineering - Part C: Methods, 2017, 23, 286-297.	1.1	17
261	First-Principle-Based Phonon Transport Properties of Nanoscale Graphene Grain Boundaries. Advanced Science, 2018, 5, 1700365.	5.6	17
262	Anisotropic Exclusion Effect between Photocatalytic Ag/AgCl Janus Particles and Passive Beads in a Dense Colloidal Matrix. Langmuir, 2020, 36, 7091-7099.	1.6	17
263	Enhanced π - π interactions between a C60 fullerene and a buckle bend on a double-walled carbon nanotube. Nano Research, 2010, 3, 92-97.	5.8	16
264	Optimizing substrate surface and catalyst conditions for high yield chemical vapor deposition grown epitaxially aligned single-walled carbon nanotubes. Carbon, 2011, 49, 5029-5037.	5.4	16
265	Dynamics of a nanoscale rotor driven by single-electron tunneling. Europhysics Letters, 2012, 98, 68004.	0.7	16
266	Probing Charge Transport in Oxidatively Damaged DNA Sequences under the Influence of Structural Fluctuations. Journal of Physical Chemistry B, 2012, 116, 10977-10985.	1.2	16
267	Detonation nanodiamonds biofunctionalization and immobilization to titanium alloy surfaces as first steps towards medical application. Beilstein Journal of Organic Chemistry, 2014, 10, 2765-2773.	1.3	16
268	Electron transport in extended carbon-nanotube/metal contacts: <i>ab initio</i> -based Green function method. Physical Review B, 2015, 91, .	1.1	16
269	Monitoring microbial metabolites using an inductively coupled resonance circuit. Scientific Reports, 2015, 5, 12878.	1.6	16
270	Engineering thermal rectification in MoS ₂ nanoribbons: a non-equilibrium molecular dynamics study. RSC Advances, 2015, 5, 54345-54351.	1.7	16

#	ARTICLE	IF	CITATIONS
271	Combined molecular dynamics and phase-field modelling of crack propagation in defective graphene. <i>Computational Materials Science</i> , 2019, 163, 117-126.	1.4	16
272	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	16
273	Scaling of the conductance in gold nanotubes. <i>Physical Review B</i> , 2006, 74, .	1.1	15
274	Analytical calculation of the excess current in the Octavioâ€“Tinkhamâ€“Blonderâ€“Klapwijk theory. <i>Superconductor Science and Technology</i> , 2009, 22, 085016.	1.8	15
275	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.	1.5	15
276	STM manipulation of a subphthalocyanine double-wheel molecule on Au(111). <i>Journal of Physics Condensed Matter</i> , 2012, 24, 404001.	0.7	15
277	Reverse breakdown behavior in organic pin-diodes comprising C60 and pentacene: Experiment and theory. <i>Organic Electronics</i> , 2013, 14, 193-199.	1.4	15
278	Dynamic Effects on the Charge Transport in an Organic Near-Infrared Absorber Material. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6537-6547.	1.5	15
279	DFT study of interaction of additives with Cu(111) surface relevant to Cu electrodeposition. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 211-219.	1.5	15
280	Green function, quasi-classical Langevin and Kuboâ€“Greenwood methods in quantum thermal transport. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 273003.	0.7	15
281	Introducing Molecular Electronics: A Brief Overview. , 2006, , 1-10.		14
282	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.	1.0	14
283	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.	4.0	14
284	Nanocytometer for smart analysis of peripheral blood and acute myeloid leukemia: a pilot study. <i>Nano Letters</i> , 2020, 20, 6572-6581.	4.5	14
285	Design and Performance of Novel Self-Cleaning g-C3N4/PMMA/PUR Membranes. <i>Polymers</i> , 2020, 12, 850.	2.0	14
286	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.	0.9	14
287	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. <i>Materials Advances</i> , 2022, 3, 1497-1505.	2.6	14
288	An effective formaldehyde gas sensor based on oxygen-rich three-dimensional graphene. <i>Nanotechnology</i> , 2022, 33, 185702.	1.3	14

#	ARTICLE	IF	CITATIONS
289	Frequency scaling of photo-induced tunneling. Europhysics Letters, 1999, 48, 66-72.	0.7	13
290	Transmittance anomalies of a ring with lead-positional asymmetry. European Physical Journal B, 2003, 33, 221-225.	0.6	13
291	Tight-Binding Description of the STM Image of Molecular Chains. Israel Journal of Chemistry, 2004, 44, 133-143.	1.0	13
292	Multiscale modeling of nanowire-based Schottky-barrier field-effect transistors for sensor applications. Nanotechnology, 2011, 22, 325703.	1.3	13
293	Room Temperature in Situ Growth of B/BO _x Nanowires and BO _x Nanotubes. Nano Letters, 2014, 14, 799-805.	4.5	13
294	Probing Silica-Biomolecule Interactions by Solid-State NMR and Molecular Dynamics Simulations. Langmuir, 2016, 32, 11698-11705.	1.6	13
295	In Situ Electron Driven Carbon Nanopillar-Fullerene Transformation through Cr Atom Mediation. Nano Letters, 2017, 17, 4725-4732.	4.5	13
296	Influence of Mesityl and Thiophene Peripheral Substituents on Surface Attachment, Redox Chemistry, and ORR Activity of Molecular Iron Porphyrin Catalysts on Electrodes. Inorganic Chemistry, 2019, 58, 10637-10647.	1.9	13
297	Electron Transport through Self-Assembled Monolayers of Tripeptides. Journal of Physical Chemistry C, 2019, 123, 9600-9608.	1.5	13
298	Mechanical Transmission of Rotational Motion between Molecular-Scale Gears. Physical Review Applied, 2020, 13, .	1.5	13
299	Thermoelectric Energy Harvesting from Single-Walled Carbon Nanotube Alkali-Activated Nanocomposites Produced from Industrial Waste Materials. Nanomaterials, 2021, 11, 1095.	1.9	13
300	Single-molecule DNA conductance in water solutions: Role of DNA low-frequency dynamics. Chemical Physics Letters, 2009, 467, 369-374.	1.2	12
301	Dynamical bistability of single-molecule junctions: A combined experimental and theoretical study of PTCDA on Ag(111). Physical Review B, 2011, 84, .	1.1	12
302	Nonadiabatic rectification and current reversal in electron pumps. Physical Review B, 2012, 86, .	1.1	12
303	Prediction of quantum interference in molecular junctions using a parabolic diagram: Understanding the origin of Fano and anti-resonances. Journal of Physics: Conference Series, 2013, 427, 012013.	0.3	12
304	Ionic effects on the transport characteristics of nanowire-based FETs in a liquid environment. Nano Research, 2014, 7, 380-389.	5.8	12
305	Copper nanowire synthesis by directed electrochemical nanowire assembly. RSC Advances, 2014, 4, 46363-46368.	1.7	12
306	In Situ Observation of Melting Behavior of ZnTe Nanowires. Journal of Physical Chemistry C, 2014, 118, 15061-15067.	1.5	12

#	ARTICLE	IF	CITATIONS
307	Quantum Phonon Transport in Nanomaterials: Combining Atomistic with Non-Equilibrium Greenâ€™s Function Techniques. <i>Entropy</i> , 2019, 21, 735.	1.1	12
308	ITO Work Function Tunability by Polarizable Chromophore Monolayers. <i>Langmuir</i> , 2019, 35, 2997-3004.	1.6	12
309	Current-induced rotations of molecular gears. <i>Journal of Physics Communications</i> , 2019, 3, 025011.	0.5	12
310	Multicolor Patterning of 2D Semiconductor Nanoplatelets. <i>ACS Nano</i> , 2021, 15, 17623-17634.	7.3	12
311	Low-Energy Conformational Gating in π -Conjugated Molecular Junctions. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4192-4195.	2.1	11
312	Unimolecular amplifier: principles of a three-terminal device with power gain. <i>Nanoscale</i> , 2013, 5, 6975.	2.8	11
313	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.	1.8	11
314	Quantum interference based Boolean gates in dangling bond loops on Si(100):H surfaces. <i>Scientific Reports</i> , 2015, 5, 14136.	1.6	11
315	Impact of ultrasonic dispersion on the photocatalytic activity of titania aggregates. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2423-2430.	1.5	11
316	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.	1.5	11
317	Doping of graphene induced by boron/silicon substrate. <i>Nanotechnology</i> , 2017, 28, 215701.	1.3	11
318	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.	1.5	11
319	A zinc selective oxytocin based biosensor. <i>Journal of Materials Chemistry B</i> , 2020, 8, 155-160.	2.9	11
320	One-way rotation of a chemically anchored single molecule-rotor. <i>Nanoscale</i> , 2021, 13, 16077-16083.	2.8	11
321	Impact of incomplete metal coverage on the electrical properties of metal-CNT contacts: A large-scale <i>ab initio</i> study. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	10
322	Ecotoxicity assessment using ciliate cells in millifluidic droplets. <i>Biomicrofluidics</i> , 2016, 10, 024115.	1.2	10
323	Integration of Carbon Nanotubes in Silicon Strip and Slot Waveguide Micro-Ring Resonators. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 583-589.	1.1	10
324	Spinâ€™orbit coupling in nearly metallic chiral carbon nanotubes: a density-functional based study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8848-8853.	1.3	10

#	ARTICLE	IF	CITATIONS
325	Molecular and Ionic Dipole Effects on the Electronic Properties of Si/SiO ₂ -Grafted Alkylamine Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44873-44879.	4.0	10
326	Diversification of Device Platforms by Molecular Layers: Hybrid Sensing Platforms, Monolayer Doping, and Modeling. <i>Langmuir</i> , 2018, 34, 14103-14123.	1.6	10
327	Doping engineering of thermoelectric transport in BNC heteronanotubes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1904-1911.	1.3	10
328	Spin-Polarized Electron Transmission in DNA-Like Systems. <i>Biomolecules</i> , 2020, 10, 49.	1.8	10
329	STM induced manipulation of azulene-based molecules and nanostructures: the role of the dipole moment. <i>Nanoscale</i> , 2020, 12, 24471-24476.	2.8	10
330	Effects of regulation on a self-organized market *. <i>Quantitative Finance</i> , 2001, 1, 332-335.	0.9	10
331	A Three Terminal Ring Interferometer Logic Gate. <i>Annals of the New York Academy of Sciences</i> , 2003, 1006, 306-311.	1.8	9
332	Quantification of curvature effects in boron and carbon nanotubes: Band structures and ballistic current. <i>Physical Review B</i> , 2013, 87, .	1.1	9
333	Bio-functionalization of multi-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17158.	1.3	9
334	Stabilization of aqueous graphene dispersions utilizing a biocompatible dispersant: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24007-24016.	1.3	9
335	Interactions of Long-Chain Polyamines with Silica Studied by Molecular Dynamics Simulations and Solid-State NMR Spectroscopy. <i>Langmuir</i> , 2020, 36, 11600-11609.	1.6	9
336	Modification of titanium implants using biofunctional nanodiamonds for enhanced antimicrobial properties. <i>Nanotechnology</i> , 2020, 31, 205603.	1.3	9
337	Multiscale Modeling Strategy of 2D Covalent Organic Frameworks Confined at an Air-Water Interface. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26411-26420.	4.0	9
338	The contribution of intermolecular spin interactions to the London dispersion forces between chiral molecules. <i>Journal of Chemical Physics</i> , 2022, 156, .	1.2	9
339	Model evaluation for glycolytic oscillations in yeast biotransformations of xenobiotics. <i>Biophysical Chemistry</i> , 2004, 109, 413-426.	1.5	8
340	Diffusion and localization in carbon nanotubes and graphene nanoribbons. <i>New Journal of Physics</i> , 2008, 10, 065014.	1.2	8
341	Publisher's Note: Spin-selective transport through helical molecular systems [<i>Phys. Rev. B</i> 85, 081404(R) (2012)]. <i>Physical Review B</i> , 2012, 85, .	1.1	8
342	Bandgap engineering of Cd _x Zn _{1-x} Te nanowires. <i>Nanoscale</i> , 2013, 5, 932.	2.8	8

#	ARTICLE	IF	CITATIONS
343	Microfluidic alignment and trapping of 1D nanostructures â€“ a simple fabrication route for single-nanowire field effect transistors. RSC Advances, 2015, 5, 94702-94706.	1.7	8
344	Contact effects and quantum interference in engineered dangling bond loops on silicon surfaces. Nanoscale, 2015, 7, 13967-13973.	2.8	8
345	Discrete polygonal supramolecular architectures of isocytosine-based Pt(<i>scp</i>) complexes at the solution/graphite interface. Chemical Communications, 2016, 52, 11163-11166.	2.2	8
346	Direct Assembly and Metal-Ion Binding Properties of Oxytocin Monolayer on Gold Surfaces. Langmuir, 2019, 35, 11114-11122.	1.6	8
347	Predicting the bulk modulus of single-layer covalent organic frameworks with square-lattice topology from molecular building-block properties. Nanoscale, 2021, 13, 1077-1085.	2.8	8
348	Impact of surface charge on the motion of light-activated Janus micromotors. European Physical Journal E, 2021, 44, 39.	0.7	8
349	Olfactory Perception in Relation to the Physicochemical Odor Space. Brain Sciences, 2021, 11, 563.	1.1	8
350	Coherent spin dynamics in a helical arrangement of molecular dipoles. AIMS Materials Science, 2017, 4, 1052-1061.	0.7	8
351	SCREW MOTION OF DNA DUPLEX DURING TRANSLOCATION THROUGH PORE I: INTRODUCTION OF THE COARSE-GRAINED MODEL. Biophysical Reviews and Letters, 2009, 04, 209-230.	0.9	7
352	Mechanically-induced transport switching effect in graphene-based nanojunctions. Physical Review B, 2011, 83, .	1.1	7
353	Heat transport and thermal rectification in molecular junctions: A minimal model approach. Physical Review B, 2011, 84, .	1.1	7
354	Growth of all-carbon horizontally aligned single-walled carbon nanotubes nucleated from fullerene-based structures. Nanoscale Research Letters, 2013, 8, 265.	3.1	7
355	Comparison of electron and phonon transport in disordered semiconductor carbon nanotubes. Journal of Computational Electronics, 2013, 12, 685-691.	1.3	7
356	A Systematic and Comparative Study of Binary Metal Catalysts for Carbon Nanotube Fabrication Using CVD and Laser Evaporation. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 273-285.	1.0	7
357	Structural distortions in molecular-based quantum cellular automata: a minimal model based study. Physical Chemistry Chemical Physics, 2014, 16, 17777-17785.	1.3	7
358	Influence of organic ligands on the line shape of the Kondo resonance. Physical Review B, 2016, 93, .	1.1	7
359	Emergence of Bloch oscillations in one-dimensional systems. Physical Review B, 2017, 95, .	1.1	7
360	Reusable Photocatalytic Optical Fibers for Underground, Deepâ€“Sea, and Turbid Water Remediation. Global Challenges, 2018, 2, 1700124.	1.8	7

#	ARTICLE	IF	CITATIONS
361	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.	1.3	7
362	Hexacene generated on passivated silicon. <i>Nanoscale</i> , 2018, 10, 12582-12587.	2.8	7
363	Impact of device geometry on electron and phonon transport in graphene nanorings. <i>Physical Review B</i> , 2019, 99, .	1.1	7
364	Selective Transmission of Phonons in Molecular Junctions with Nanoscopic Thermal Baths. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9680-9687.	1.5	7
365	Coexistence of fluorescent <i>Escherichia coli</i> strains in millifluidic droplet reactors. <i>Lab on A Chip</i> , 2021, 21, 1492-1502.	3.1	7
366	Multisite Dopamine Sensing With Femtomolar Resolution Using a CMOS Enabled Aptasensor Chip. <i>Frontiers in Neuroscience</i> , 2022, 16, .	1.4	7
367	AC-conductance of one-dimensional, long-range correlated electrons. <i>Physica B: Condensed Matter</i> , 1996, 227, 256-258.	1.3	6
368	Correlations in the bond-future market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 269, 90-97.	1.2	6
369	AC transport in carbon-based devices: challenges and perspectives. <i>Comptes Rendus Physique</i> , 2009, 10, 297-304.	0.3	6
370	Molecules for organic electronics studied one by one. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14421.	1.3	6
371	Understanding the growth of amorphous SiO ₂ nanofibers and crystalline binary nanoparticles produced by laser ablation. <i>Nanotechnology</i> , 2012, 23, 035601.	1.3	6
372	High yield formation of lipid bilayer shells around silicon nanowires in aqueous solution. <i>Nanotechnology</i> , 2013, 24, 355601.	1.3	6
373	Towards a multiscale modeling framework for metal-CNT interfaces. , 2014, , .		6
374	The modular approach enables a fully <i>ab initio</i> simulation of the contacts between 3D and 2D materials. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 395303.	0.7	6
375	Electronically Driven Single-Molecule Switch on Silicon Dangling Bonds. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27027-27032.	1.5	6
376	Time-dependent framework for energy and charge currents in nanoscale systems. <i>Chemical Physics</i> , 2018, 514, 176-182.	0.9	6
377	Signal and Noise of Schottky-Junction Parallel Silicon Nanowire Transducers for Biochemical Sensing. <i>IEEE Sensors Journal</i> , 2018, 18, 967-975.	2.4	6
378	Immune Profiling of Polysaccharide Submicron Vesicles. <i>Biomacromolecules</i> , 2018, 19, 3560-3571.	2.6	6

#	ARTICLE	IF	CITATIONS
379	Exploring the similarity of single-layer covalent organic frameworks using electronic structure calculations. <i>RSC Advances</i> , 2022, 12, 12283-12291.	1.7	6
380	Real-Time Monitoring of Blood Parameters in the Intensive Care Unit: State-of-the-Art and Perspectives. <i>Journal of Clinical Medicine</i> , 2022, 11, 2408.	1.0	6
381	From a local Green's function to molecular charge transport. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 2179-2188.	0.7	5
382	Spin transport in disordered single-wall carbon nanotubes contacted to ferromagnetic leads. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 179-182.	0.7	5
383	Rectification effects in coherent transport through single molecules. <i>Surface Science</i> , 2007, 601, 4109-4112.	0.8	5
384	Graphene Coatings for the Mitigation of Electron Stimulated Desorption and Fullerene Cap Formation. <i>Chemistry of Materials</i> , 2014, 26, 4998-5003.	3.2	5
385	Multifunctional reversibly sealable microfluidic devices for patterned material deposition approaches. <i>RSC Advances</i> , 2015, 5, 11806-11811.	1.7	5
386	Competence-Based, Research-Related Lab Courses for Materials Modeling: The Case of Organic Photovoltaics. <i>Journal of Chemical Education</i> , 2017, 94, 190-194.	1.1	5
387	Electrical characterization of two-dimensional materials and their heterostructures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 198, 012002.	0.3	5
388	Influence of defect-induced deformations on electron transport in carbon nanotubes. <i>Journal of Physics Communications</i> , 2018, 2, 115023.	0.5	5
389	Quantitative analysis of BMP-2 derived peptide covalently grafted onto oxidized detonation nanodiamonds. <i>Carbon</i> , 2019, 152, 740-745.	5.4	5
390	Immobilization of Detonation Nanodiamonds on Macroscopic Surfaces. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1064.	1.3	5
391	Surface-Phonon-Induced Rotational Dissipation for Nanoscale Solid-State Gears. <i>Physical Review Applied</i> , 2021, 15, .	1.5	5
392	An Atomistic Study of the Thermoelectric Signatures of CNT Peapods. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13721-13731.	1.5	5
393	Control of Crystallinity of Vinylene-Linked Two-Dimensional Conjugated Polymers by Rational Monomer Design. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	5
394	Nanosensors in clinical development of CAR-T cell immunotherapy. <i>Biosensors and Bioelectronics</i> , 2022, 206, 114124.	5.3	5
395	Coulomb blockade at a tunnel junction between two quantum wires with long-range interaction. <i>Solid State Communications</i> , 1997, 101, 915-919.	0.9	4
396	AC-Driven Transport Through Molecular Wires. , 2006, , 55-75.		4

#	ARTICLE	IF	CITATIONS
397	Transport response of carbon-based resonant cavities under time-dependent potential and magnetic fields. <i>Europhysics Letters</i> , 2011, 94, 47002.	0.7	4
398	Aspects of computing with locally connected networks. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	4
399	Portable measurement system for silicon nanowire field-effect transistor-based biosensors. , 2013, , .		4
400	Ion Fluxes and Electro-osmotic Fluid Flow in Electrolytes around a Metallic Nanowire Tip under Large Applied ac Voltage. <i>Langmuir</i> , 2013, 29, 11525-11534.	1.6	4
401	Photoassisted transport in silicon dangling bond wires. <i>Applied Physics Letters</i> , 2015, 107, 203109.	1.5	4
402	Modeling of Solvent Effects in the Electrical Response of π -Stacked Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20201-20209.	1.5	4
403	Thermoelectric properties of nanocarbons: Atomistic modeling. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 591-602.	0.8	4
404	Tuning the conductance of a molecular wire by the interplay of donor and acceptor units. <i>Nanoscale</i> , 2018, 10, 17131-17139.	2.8	4
405	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.	1.6	4
406	Comparative Studies of Light-Responsive Swimmers: Janus Nanorods versus Spherical Particles. <i>Langmuir</i> , 2020, 36, 12504-12512.	1.6	4
407	Exploring the organic–inorganic interface in biosilica: atomistic modeling of polyamine and silica precursors aggregation behavior. <i>BMC Materials</i> , 2020, 2, .	6.8	4
408	Nanosensors-Assisted Quantitative Analysis of Biochemical Processes in Droplets. <i>Micromachines</i> , 2020, 11, 138.	1.4	4
409	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.	0.8	4
410	On–Surface Formation of Cyano–Vinylene Linked Chains by Knoevenagel Condensation. <i>Chemistry - A European Journal</i> , 2021, 27, 17336-17340.	1.7	4
411	Combination of Knoevenagel Polycondensation and Water-Assisted Dynamic Michael–Addition–Elimination for the Synthesis of Vinylene-Linked 2D Covalent Organic Frameworks. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
412	Sum rule for transport in a Luttinger liquid with long-range interaction in the presence of an impurity. <i>Europhysics Letters</i> , 1997, 37, 421-426.	0.7	3
413	Description of unconventional electronic transport in mesoscopic structures. <i>Applied Physics Letters</i> , 2004, 85, 3104-3106.	1.5	3
414	DNA Conduction: The Issue of Static Disorder, Dynamic Fluctuations and Environmental Effects. , 2006, , 433-464.		3

#	ARTICLE	IF	CITATIONS
415	Ballistic magnetoresistance in small-size carbon nanotube devices. Journal of Magnetism and Magnetic Materials, 2007, 310, 2439-2441.	1.0	3
416	SINGLE-MOLECULE DNA CONDUCTANCE IN WATER SOLUTIONS: ROLE OF EXPLICIT WATER COUNTERION SHEATH AND CHEMICAL MODIFICATION OF NUCLEOBASES. Biophysical Reviews and Letters, 2009, 04, 231-243.	0.9	3
417	Unravelling the Mechanisms Behind Mixed Catalysts for the High Yield Production of Single-Walled Carbon Nanotubes. ACS Nano, 2009, 3, 3839-3844.	7.3	3
418	Growth of catalyst-assisted and catalyst-free horizontally aligned single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2011, 248, 2467-2470.	0.7	3
419	Defect assisted thermal synthesis of crystalline aluminum borate nanowires. Journal of Applied Physics, 2012, 112, .	1.1	3
420	Channel length dependent sensor response of Schottky-barrier FET pH sensors. , 2013, , .		3
421	Effect of Waveform of ac Voltage on the Morphology and Crystallinity of Electrochemically Assembled Platinum Nanowires. Langmuir, 2014, 30, 5655-5661.	1.6	3
422	Influence of surface charge on the transport characteristics of nanowire-field effect transistors in liquid environments. Applied Physics Letters, 2015, 106, 203104.	1.5	3
423	An efficient coarse-grained approach for the electron transport through large molecular systems under dephasing environment. European Physical Journal B, 2016, 89, 1.	0.6	3
424	In-depth electrical characterization of carrier transport in ambipolar Si-NW Schottky-barrier FETs. , 2017, , .		3
425	Atomistic Framework for Time-Dependent Thermal Transport. Journal of Physical Chemistry C, 2018, 122, 21062-21068.	1.5	3
426	Room temperature single-step synthesis of metal decorated boron-rich nanowires via laser ablation. Nano Convergence, 2019, 6, 14.	6.3	3
427	Determination of the Entire Stent Surface Area by a New Analytical Method. Materials, 2020, 13, 5633.	1.3	3
428	Evaluation of in Vitro Corrosion Behavior of Titanium Oxynitride Coated Stainless Steel Stents. IEEE Access, 2021, 9, 59766-59782.	2.6	3
429	Lab on a Wire: Application of Silicon Nanowires for Nanoscience and Biotechnology. , 2014, , 241-278.		3
430	A nanographene disk rotating a single molecule gear on a Cu(111) surface. Nanotechnology, 2022, 33, 175701.	1.3	3
431	StarPEG-heparin biosensors for rapid and portable diagnostics in complex biofluids. Sensors & Diagnostics, 2022, 1, 558-565.	1.9	3
432	Asset-asset interactions and clustering in financial markets. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 262-267.	1.2	2

#	ARTICLE	IF	CITATIONS
433	Liquid markets and market liquids. <i>European Physical Journal B</i> , 2001, 20, 561-564.	0.6	2
434	Effective Models for Charge Transport in DNA Nanowires. , 2008, , 107-119.		2
435	Low temperature CVD growth of graphene nano-flakes directly on high K dielectrics. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1284, 19.	0.1	2
436	Computing Raman and infrared wavenumbers of nanostructures: application to silicon nanowires. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1214-1220.	1.2	2
437	Spatial recognition of defects and tube type in carbon nanotube field effect transistors using electrostatic force microscopy. <i>Nanotechnology</i> , 2013, 24, 235708.	1.3	2
438	Annealing effect on the thermal conductivity of thermoelectric ZnTe nanowires. <i>Materials Letters</i> , 2014, 135, 87-91.	1.3	2
439	Multi-scale modeling of metal-CNT interfaces. , 2015, , .		2
440	Spin-Dependent Effects in Helical Molecular Systems with Rashba-Like Spin-Orbit Interaction. <i>Acta Physica Polonica A</i> , 2015, 127, 185-191.	0.2	2
441	In-situ Quasi-Instantaneous e-beam Driven Catalyst-Free Formation Of Crystalline Aluminum Borate Nanowires. <i>Scientific Reports</i> , 2016, 6, 22524.	1.6	2
442	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.	2.5	2
443	In vitro characterization of osteoblast cells on polyelectrolyte multilayers containing detonation nanodiamonds. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 055026.	1.7	2
444	Nanoelectromechanical rotary current rectifier. <i>Physical Review Research</i> , 2021, 3, .	1.3	2
445	Modelling molecular conduction in DNA wires: charge transfer theories and dissipative quantum transport. , 2006, , 383-391.		2
446	Effect of the lead dimensionality over transport properties in quantum dots. <i>Brazilian Journal of Physics</i> , 2002, 32, 293-295.	0.7	2
447	Mechanical Transmission of Rotation for Molecule Gears and Solid-State Gears. <i>Advances in Atom and Single Molecule Machines</i> , 2020, , 165-180.	0.0	2
448	Sniffbots to "Rescue" Fog Services for "Gas-Sniffing Immersive Robot Collective. <i>Lecture Notes in Computer Science</i> , 2022, , 3-28.	1.0	2
449	Dissipative effects in a DNA ladder model. , 0, , .		1
450	Molecular Wire-Nanotube Interfacial Effects on Electron Transport. <i>Annals of the New York Academy of Sciences</i> , 2006, 960, 216-224.	1.8	1

#	ARTICLE	IF	CITATIONS
451	Vibrational heating in single-molecule switches: an energy-dependent density-of-states approach. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 394003.	0.7	1
452	Package characterization of FET-based biochemical sensors. , 2014, , .		1
453	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.	1.6	1
454	Contact properties of ultras-small carbon nanotube transistors from Ab-initio. , 2014, , .		1
455	Quantum coherence of bulk electrons on metals revealed by scanning tunneling spectroscopy. <i>Physical Review B</i> , 2014, 89, .	1.1	1
456	pH measurements of FET-based (bio)chemical sensors using portable measurement system. , 2015, 2015, 6445-8.		1
457	Contact-dependent mechanical properties of graphene nanoribbons: an ab initio study. <i>Nanotechnology</i> , 2016, 27, 025702.	1.3	1
458	Human β -thrombin detection platform using aptamers on a silicon nanowire field-effect transistor. , 2017, , .		1
459	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.	1.3	1
460	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.	0.7	1
461	Mapping Conformational Changes in a Self-Assembled Two-Dimensional Molecular Network by Statistical Analysis of Conductance Images. <i>Physical Review Applied</i> , 2019, 11, .	1.5	1
462	Application of μ CT for the Determination of Total Surface Area of Stents. , 2019, , .		1
463	Metal ion-doped sol-gel film for emulating synaptic activity and short-term non-volatile memory. , 2019, , .		1
464	Modeling of the Coadsorption of Chloride and Hydrogen Ions on Copper Electrode Surface. <i>Journal of the Electrochemical Society</i> , 2019, 166, D3042-D3048.	1.3	1
465	Continuum modelling of structure formation of biosilica patterns in diatoms. <i>BMC Materials</i> , 2020, 2, .	6.8	1
466	Nanoscale Phononic Analog of the Ranque-Hilsch Vortex Tube. <i>Physical Review Applied</i> , 2021, 15, .	1.5	1
467	Hemocompatible Electrochemical Sensors for Continuous Monitoring of Blood Parameters. <i>Engineering Proceedings</i> , 2021, 6, .	0.4	1
468	Describing chain-like assembly of ethoxygroup-functionalized organic molecules on Au(111) using high-throughput simulations. <i>Scientific Reports</i> , 2021, 11, 14649.	1.6	1

#	ARTICLE	IF	CITATIONS
469	Metal ion binding and tolerance of bacteria cells in view of sensor applications. Journal of Sensors and Sensor Systems, 2018, 7, 433-441.	0.6	1
470	Effect of lubricants on the rotational transmission between solid-state gears. Beilstein Journal of Nanotechnology, 2022, 13, 54-62.	1.5	1
471	Conductance of molecular wires: coherent and incoherent transport (Invited Paper). , 2005, 5838, 182.		0
472	Resonant neutral particle emission in collisions of electrons with protonated peptides with disulfide bonds at high energies. Chemical Physics Letters, 2011, 504, 83-87.	1.2	0
473	A novel electrochemical synthesis route for copper nanowire formation. , 2013, , .		0
474	Integration of carbon nanotubes in silicon resonators. , 2015, , .		0
475	Electrical characteristics of the carbon nanotube field-effect transistors with extended contacts obtained within ab-initio based model. , 2015, , .		0
476	Carbon nanotubes integration on silicon. , 2016, , .		0
477	Coupling of semiconductor carbon nanotubes emission with silicon photonic micro ring resonators. , 2016, , .		0
478	Integration of carbon nanotubes in slot waveguides (Conference Presentation). , 2016, , .		0
479	Hybrid integration of carbon nanotubes into silicon slot photonic structures. , 2016, , .		0
480	Gap engineering for improved control of memristor nanosensors. , 2017, , .		0
481	Nanoscale Molecular Automata: From Materials to Architectures. Natural Computing Series, 2018, , 319-337.	2.2	0
482	Highly Sensitive Silicon Nanowire Biosensor Devices for the Investigation of UniCAR Platform in Immunotherapy. Engineering Proceedings, 2021, 6, .	0.4	0
483	Detection of C-Reactive Protein by Liquid-Gated Carbon Nanotube Field Effect Transistors (LG-CNTFET): A Promising Tool against Antibiotic Resistance. Engineering Proceedings, 2021, 6, .	0.4	0
484	ZnO Low-Dimensional Thin Films Used as a Potential Material for Water Treatment. Engineering Proceedings, 2021, 6, .	0.4	0
485	Supramolecular Functionalized Pristine Graphene Utilizing a Bio-Compatible Stabilizer towards Ultra-Sensitive Ammonia Detection. Engineering Proceedings, 2021, 6, 14.	0.4	0
486	CuO-Doped Alginate for Simple Electrochemical Vitamin C Sensing in Sweat. Engineering Proceedings, 2021, 6, .	0.4	0

#	ARTICLE	IF	CITATIONS
487	The role of structural symmetry on proton tautomerization: A DFTB/Meta-Dynamics computational study. <i>Chemical Physics</i> , 2021, 548, 111222.	0.9	0
488	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.	2.3	0
489	Switching Mechanisms for Single-Molecule Logic Gates. <i>Advances in Atom and Single Molecule Machines</i> , 2013, , 55-69.	0.0	0
490	Vibrational Heating in Single-Molecule Switches. <i>Advances in Atom and Single Molecule Machines</i> , 2013, , 87-96.	0.0	0
491	In-Plane Edge Magnetism in Graphene-Like Nanoribbons. <i>Acta Physica Polonica A</i> , 2017, 131, 828-829.	0.2	0
492	Effect of Magnetic Zigzag Edges in Graphene-like Nanoribbons on the Thermoelectric Power Factor. <i>Acta Physica Polonica A</i> , 2018, 133, 535-537.	0.2	0
493	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.	0.2	0
494	Transport through Intrinsic Quantum Dots in Interacting Carbon Nanotubes. , 2006, , 229-249.		0
495	Neuromorphic hybrid systems based on polarizable thin film-coated silicon nanowire field-effect transistors. , 2021, , .		0
496	Continuous monitoring of molecular biomarkers in microfluidic devices. <i>Progress in Molecular Biology and Translational Science</i> , 2022, 187, 295-333.	0.9	0