Alexander N Chaika

List of Publications by Year in Descending Order

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

152 232 9 13 g-index

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| # | Paper | IF | Citations |
|-----|--|-------|-----------|
| 152 | Surface functionalization of few-layer graphene on ESiC(001) by Neutral Red dye. <i>Applied Surface Science</i> , 2022 , 585, 152542 | 6.7 | O |
| 151 | Atomic and Electronic Structure of a Multidomain GeTe Crystal. ACS Nano, 2020, | 16.7 | 10 |
| 150 | Graphene-Based Nanocomposite Materials for the Design of Electrochemical Sensors and Their Applications 2019 , 535-568 | | O |
| 149 | Supramolecular Graphene-Based Systems for Drug Delivery 2019 , 443-479 | | |
| 148 | Graphite in Metallic Materials Growths, Structures, and Defects of Spheroidal Graphite in Ductile Iron 2019 , 1-39 | | |
| 147 | Biological, Biomedical, and Medical Applications of Graphene and Graphene-Based Materials (G-bMs) 2019 , 1-41 | | 1 |
| 146 | Adaptation and Viability of Graphene-Based Materials in Clinical Improvement 2019 , 79-98 | | |
| 145 | Modeling of Graphene-Based Electronics: From Material Properties to Circuit Simulations 2019 , 73-120 | | |
| 144 | Graphene Oxide Multilayers Obtained from Bamboo: New Synthesis Method, Basic Properties, and Future Electronic Applications 2019 , 191-236 | | 1 |
| 143 | Topological Design of Graphene 2019 , 1-44 | | 2 |
| 142 | Graphene in Bioelectronics 2019 , 253-262 | | |
| 141 | Graphene-Based Advanced Nanostructures 2019 , 471-493 | | |
| 140 | Exfoliated Graphene-Based 2D Materials: Synthesis and Catalytic Behaviors 2019 , 529-558 | | 4 |
| 139 | Graphene Metamaterial Electron Optics: Excitation Processes and Electro-Optical Modulation 2019 , 26. | 3-296 | 0 |
| 138 | Synthesis, Characterization, and Applications of Polymer/Graphene Oxide Composite Materials 2019 , 541-573 | | |
| 137 | Graphene-Based Materials for Advanced Lithium-Ion Batteries 2019 , 197-218 | | |
| 136 | Nitrogen-Doped Carbon Nanostructures as Oxygen Reduction Reaction (ORR) and Oxygen Evolution Reaction (OER) Electrocatalysts in Acidic Media 2019 , 373-413 | | 1 |

| 135 | Electrochemical Biosensors Based on Green Synthesized Graphene and Graphene Nanocomposites 2019 , 233-296 | 0 |
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| 134 | Graphene Composites 2019 , 1-25 | O |
| 133 | Graphene-Based Biosensors in Agro-Defense: Food Safety and Animal Health Diagnosis 2019 , 29-57 | 1 |
| 132 | Buckling Characteristics of Bilayer Graphene Sheets Subjected to Humid Thermomechanical Loading 2019 , 433-454 | 1 |
| 131 | Features and Prospects for Epitaxial Graphene on SiC 2019 , 153-199 | 1 |
| 130 | Graphene and Graphene-Based Hybrid Composites for Advanced Rechargeable Battery Electrodes 2019 , 147-196 | |
| 129 | Graphene-Based Electrochemical Aptasensors 2019 , 465-482 | 1 |
| 128 | Graphene and Graphene Nanocomposite-Based Electrochemical Sensors 2019 , 631-661 | 1 |
| 127 | Proximity-Induced Topological Transition and Strain-Induced Charge Transfer in Graphene/MoS2 Bilayer Heterostructures 2019 , 1-28 | 2 |
| 126 | GrapheneBiC Reinforced Hybrid Composite Foam: Response to High Strain Rate Deformation 2019 , 101-116 | |
| 125 | Three-Dimensional Graphene Foams for Energy Storage Applications 2019 , 49-91 | |
| 124 | Graphene Structures: From Preparations to Applications 2019 , 323-357 | 2 |
| 123 | Graphene Molecules as Platforms for SERS Detection: A Future Perspective 2019 , 429-464 | |
| 122 | Self-Organized 3D Graphene as a Robust Sensing Platform 2019 , 483-507 | 1 |
| 121 | Interactions of Molecular Species with Graphene and Graphene Sensing 2019 , 509-533 | |
| 120 | Self-Assembled Thin Films of Graphene Materials for Sensors 2019 , 569-602 | |
| 119 | Electrochemically Reduced Graphene Oxide: A Smart Material for Electrochemical Sensing 2019 , 603-629 | 2 |
| 118 | Controlling the Electromagnetic and Electrochemical Sensing Properties of Graphene via Heteroatom Doping 2019 , 663-682 | 2 |

| 117 | Graphene and Graphene Composites-Modified Electrodes Surfaces for Selective Sensing of Dopamine in the Presence of Ascorbic Acid and Uric Acid 2019 , 683-706 | 1 |
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| 116 | Three-Dimensional Graphene-Based Structures: Production Methods, Properties, and Applications 2019 , 359-387 | 3 |
| 115 | Finite Element Analysis of Graphene Materials 2019 , 707-730 | |
| 114 | Quantitative Real-Time Evaluation of C/O Ratios and Stepwise Control of Deoxidization of Graphene Oxide Using Plasmonic-Based Electrochemical Spectroscopy 2019 , 731-765 | |
| 113 | Effect of Graphene Oxide Nanosheets on the Structure and Properties of Cement Composites 2019 , 43-78 | |
| 112 | Graphene-Based Synaptic Devices for Neuromorphic Applications 2019 , 99-142 | |
| 111 | Graphene-Based Materials for Implants 2019 , 143-175 | 0 |
| 110 | Ultrashort Pulse Fiber Laser Generation Using Molybdenum Disulfide and Tungsten Disulfide Saturable Absorber 2019 , 177-197 | |
| 109 | Graphene-Modified Asphalt 2019 , 199-223 | |
| 108 | Electrochemistry of Graphene Materials 2019 , 389-419 | |
| 107 | Graphene-Based Materials for Brain Targeting 2019 , 225-246 | 1 |
| 106 | Antimicrobial Activities of Graphene-Based Materials 2019 , 247-266 | |
| 105 | Reworking Defective Soldering Joints With Graphene Sheets and Gold Nanoparticles 2019 , 1-9 | |
| 104 | Printed Graphene Radio Frequency and Sensing Applications for Internet of Things 2019 , 11-46 | |
| 103 | Modeling and Characterization of the Metal Contact and the Channel in a Graphene Device 2019 , 47-71 | |
| 102 | Hybrid GrapheneBilicon Photonic and Optoelectronic Integrated Devices 2019 , 121-146 | |
| 101 | Sustainability, Research, and Development of Graphene for Engineering Applications 2019, 147-190 | |
| 100 | Hydrogen Functionalized Graphene Nanostructure Material for Spintronic Application 2019 , 421-450 | |

| 99 | Laser Direct-Writing Graphene Oxide to Graphene Mechanisms to Applications 2019, 237-287 | O |
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| 98 | Wave Propagation Responses of Double-Layered Graphene Sheets in Hygrothermal Environment 2019 , 289-307 | |
| 97 | Graphene Terahertz Leaky-Wave Antennas 2019 , 309-340 | |
| 96 | Terahertz Applications of Graphene 2019 , 341-357 | |
| 95 | Modelling of Graphene Nanoribbons Antenna Based on MoM-GEC Method to Enhance Nanocommunications in Terahertz Range 2019 , 359-392 | 1 |
| 94 | Graphene-Based Plasmonic Components for THz Applications: Planar Ring Array Devices 2019 , 393-408 | |
| 93 | Polymer/Graphene Nanomaterials: A Platform for Current High-Tech Applications 2019, 455-469 | 1 |
| 92 | The Impact of Uniaxial Strain and Defect Pattern on Magnetoelectronic and Transport Properties of Graphene 2019 , 451-502 | 1 |
| 91 | Exploiting Graphene as an Efficient Catalytic Template for Organic Transformations: Synthesis, Characterization and Activity Evaluation of Graphene-Based Catalysts 2019 , 503-528 | |
| 90 | Functionalization of Graphene with Molecules and/or Nanoparticles for Advanced Applications 2019 , 559-609 | O |
| 89 | Carbon Allotropes, Between Diamond and Graphite: How to Create Semiconductor Properties in Graphene and Related Structures 2019 , 611-647 | |
| 88 | Graphene at the Metal©xide Interface: A New Approach to Modify the Chemistry of Supported Metals 2019 , 45-71 | |
| 87 | The Combinatorial Structure of Graphene 2019 , 73-94 | |
| 86 | Interacting Electrons in Graphene 2019 , 95-125 | |
| 85 | Computational Determination of the Properties of Graphene Nanoribbons 2019 , 127-145 | |
| 84 | Synthetic Electric Fields Influence the Non-Stationary Processes in Graphene 2019 , 147-193 | |
| 83 | Interaction and Manipulation of Bi Adatoms on Monolayer Epitaxial Graphene 2019 , 195-218 | |
| 82 | Strain Engineering: Electromechanical Properties of Graphene 2019 , 219-243 | |

81 Characteristic Mechanical Responses of Graphene Membranes **2019**, 245-271

| 80 | Graphene and Its Derivatives as Platforms for MALDI-MS 2019 , 273-289 | 4 |
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| 79 | Characterization and Dynamic Manipulation of Graphene by In Situ Transmission Electron Microscopy at Atomic Scale 2019 , 291-314 | |
| 78 | Methods of Synthesis and Physicochemical Properties of Fluorographenes 2019 , 63-100 | |
| 77 | Peculiarities of Quasi-Particle Spectra in Graphene Nanostructures 2019 , 315-387 | 1 |
| 76 | Complex Refractive Index (RI) of Graphene 2019 , 389-412 | 2 |
| 75 | Fractional Quantum Hall Effect in Graphene, a Topological Approach 2019 , 413-453 | |
| 74 | Graphene Plasmonic: Switching Applications 2019 , 455-505 | 3 |
| 73 | Theoretical Study and Numerical Modeling of Graphenels Electromagnetic Response 2019, 507-548 | |
| 72 | Graphene-Like ANB8N Compounds on Metals and Semiconductors 2019 , 549-591 | 1 |
| 71 | Lower Dimensional Materials 2019 , 593-611 | |
| 70 | Nature of Graphene, Its Chemical Structure, Composites, Synthesis, Properties, and Applications 2019 , 613-636 | 1 |
| 69 | Planar Graphene Superlattices 2019 , 29-82 | |
| 68 | Magnetic and Optical Properties of Graphene Materials with Porous Defects 2019 , 83-111 | |
| 67 | Graphynes: Advanced Carbon Materials with Layered Structure 2019 , 113-150 | 7 |
| 66 | Nanoelectronic Application of Graphyne and Its Structural Derivatives 2019 , 151-176 | |
| 65 | Twisted Bilayer Graphene: Low-Energy Physics, Electronic and Optical Properties 2019 , 177-231 | 6 |
| 64 | Effects of Charged Coulomb Impurities on Low-Lying Energy Spectra in Graphene Magnetic Dot and Ring 2019 , 233-252 | |

| 63 | Linear Carbon: From 1D Carbyne to 2D Hybrid sp-sp2 Nanostructures Beyond Graphene 2019 , 297-340 | 1 |
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| 62 | Band Structure Modifications in Beyond Graphene Materials 2019 , 341-372 | |
| 61 | Atomic Structure and Electronic Properties of Few-Layer Graphene on SiC(001) 2019, 117-151 | 1 |
| 60 | Chemically Modified 2D Materials: Production and Applications 2019 , 373-400 | 1 |
| 59 | Black Phosphorus Saturable Absorber for Passive Mode-Locking Pulses Generation 2019 , 401-430 | |
| 58 | Search for Fundamental Physics on Table Top Experiments with DiraclWeyl Materials 2019, 431-466 | |
| 57 | Graphene-Reinforced Advanced Composite Materials 2019 , 27-89 | 3 |
| 56 | Graphene-Based Composite Materials 2019 , 91-114 | |
| 55 | Interfacial Mechanical Properties of Graphene/Substrate System: Measurement Methods and Experimental Analysis 2019 , 115-146 | |
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| 54 | Graphene-Based Ceramic Composites: Processing and Applications 2019 , 147-169 | |
| 54 53 | Graphene-Based Ceramic Composites: Processing and Applications 2019 , 147-169 Ab Initio Design of 2D and 3D Graphene-Based Nanostructure 2019 , 171-202 | 1 |
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| 53 | Ab Initio Design of 2D and 3D Graphene-Based Nanostructure 2019 , 171-202 | |
| 53 52 | Ab Initio Design of 2D and 3D Graphene-Based Nanostructure 2019 , 171-202 Graphene-Based Composite Nanostructures: Synthesis, Properties, and Applications 2019 , 203-232 Graphene-Based Composites with Shape Memory Effect P roperties, Applications, and Future | |
| 53 52 51 | Ab Initio Design of 2D and 3D Graphene-Based Nanostructure 2019 , 171-202 Graphene-Based Composite Nanostructures: Synthesis, Properties, and Applications 2019 , 203-232 Graphene-Based Composites with Shape Memory Effect® roperties, Applications, and Future Perspectives 2019 , 233-259 Graphene-Based Scroll Structures: Optical Characterization and Its Application in Resistive | |
| 53 52 51 50 | Ab Initio Design of 2D and 3D Graphene-Based Nanostructure 2019, 171-202 Graphene-Based Composite Nanostructures: Synthesis, Properties, and Applications 2019, 203-232 Graphene-Based Composites with Shape Memory Effect® roperties, Applications, and Future Perspectives 2019, 233-259 Graphene-Based Scroll Structures: Optical Characterization and Its Application in Resistive Switching Memory Devices 2019, 261-283 | 1 |
| 53 52 51 50 49 | Ab Initio Design of 2D and 3D Graphene-Based Nanostructure 2019, 171-202 Graphene-Based Composite Nanostructures: Synthesis, Properties, and Applications 2019, 203-232 Graphene-Based Composites with Shape Memory Effect® roperties, Applications, and Future Perspectives 2019, 233-259 Graphene-Based Scroll Structures: Optical Characterization and Its Application in Resistive Switching Memory Devices 2019, 261-283 Fabrication and Properties of Copper© raphene Composites 2019, 285-322 | 1 |

| 45 | Functional Graphene Oxide/Epoxy Nanocomposite Coatings with Enhanced Protection Properties 2019 , 419-442 | |
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| 44 | Polymeric Nanocomposites Including Graphene Nanoplatelets 2019 , 481-515 | 5 |
| 43 | Graphene OxidePolyacrylamide Composites: Optical and Mechanical Characterizations 2019, 517-540 | |
| 42 | Graphitic Carbon/Graphene on Si(111) via Direct Deposition of Solid-State Carbon Atoms: Growth Mechanism and Film Characterization 2019 , 201-247 | |
| 41 | Graphene Nanomaterials in Energy and Environment Applications 2019 , 1-25 | 1 |
| 40 | Graphene as Nanolubricant for Machining 2019 , 27-48 | |
| 39 | Graphene-Based Materials for Supercapacitors and Conductive Additives of Lithium Ion Batteries 2019 , 219-298 | |
| 38 | Graphene-Based Flexible Actuators, Sensors, and Supercapacitors 2019 , 299-337 | |
| 37 | Graphene as Catalyst Support for the Reactions in Fuel Cells 2019 , 339-372 | |
| 36 | Chemical Reactivity and Variation in Electronic Properties of Graphene on Ni(111) and Reduced Graphene Oxide 2019 , 249-294 | |
| 35 | Recent Advances in Graphene-Based Materials for Photocatalytic H2 Evolution 2019, 415-433 | |
| 34 | Graphene Thermal Functional Device and Its Property Characterization 2019 , 435-468 | |
| 33 | Self- and Directed-Assembly of Metallic and Nonmetallic Fluorophors: Considerations into Graphene and Graphene Oxides for Sensing and Imaging Applications 2019 , 469-505 | 1 |
| 32 | Stimuli-Responsive Graphene-Based Matrices for Smart Therapeutics 2019 , 507-533 | |
| 31 | Application of Graphene Materials in Molecular Diagnostics 2019 , 535-560 | |
| 30 | Graphene Oxide Membranes for Liquid Separation 2019 , 561-573 | |
| 29 | Graphene-Based Biosensors: Fundamental Concepts, Outline of Utility, and Future Scopes 2019 , 1-14 | |
| 28 | Graphene for Electrochemical Biosensors in Biomedical Applications 2019 , 15-28 | |

| 27 | Chlorophyll and Graphene: A New Paradigm of Biomimetic Symphony 2019 , 295-322 | | |
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| 26 | Trends and Frontiers in Graphene-Based (Bio)sensors for Pesticides Electroanalysis 2019 , 59-98 | | 1 |
| 25 | Graphene-Based Biosensors: Design, Construction, and Validation. Toward a Nanotechnological Tool for the Rapid in-Field Detection of Food Toxicants and Environmental Pollutants 2019 , 99-116 | | 1 |
| 24 | Application of Porous Graphene in Electrochemical Sensors and Biosensors 2019 , 117-142 | | |
| 23 | Reduced Graphene Oxide for Biosensing and Electrocatalytic Applications 2019, 143-179 | | |
| 22 | Recent Progress in the Graphene-Based Electrochemical Biosensors Development 2019 , 181-232 | | |
| 21 | Recent Biosensing Applications of Graphene-Based Nanomaterials 2019 , 297-348 | | 1 |
| 20 | Graphene-Based Sensors: Applications in Electrochemical (Bio)sensing 2019 , 349-369 | | 2 |
| 19 | Graphene-Based Fiber Optic Label-Free Biosensor 2019 , 371-396 | | 1 |
| 18 | Label-Free Biosensors Based on Graphene: State-of-the-Art 2019 , 397-427 | | 0 |
| 17 | Graphene-Based Nanomaterials in Tissue Engineering and Regenerative Medicine 2019, 637-658 | | 3 |
| 16 | Graphene Quantum Dots New Member of the Graphene Family: Structure, Properties, and Biomedical Applications 2019 , 267-299 | | |
| 15 | Functionalized Graphene Nanomaterials as Biocatalysts: Recent Developments and Future Prospects 2019 , 301-323 | | |
| 14 | Continuous Graphene Oxide Fiber and Its Applications 2019 , 409-431 | | |
| 13 | GrapheneBynthesis and Quality Optimization 2019 , 41-62 | | |
| 12 | Electronic Transport upon Adsorption of Biomolecules on Graphene 2019 , 767-792 | | |
| 11 | Three-Dimensional Graphene Materials: Synthesis and Applications in Electrocatalysts and Electrochemical Sensors 2019 , 93-145 | | |
| 10 | Layer-by-Layer Graphene Growth on ÆiC/Si(001). <i>ACS Nano</i> , 2019 , 13, 526-535 | 16.7 | 10 |

| 9 | A photochemical approach for a fast and self-limited covalent modification of surface supported graphene with photoactive dyes. <i>Nanotechnology</i> , 2018 , 29, 275705 | 3.4 | 4 | |
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| 8 | Step bunching with both directions of the current: Vicinal W(110) surfaces versus atomistic-scale model. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 10 | |
| 7 | Large positive in-plane magnetoresistance induced by localized states at nanodomain boundaries in graphene. <i>Nature Communications</i> , 2017 , 8, 14453 | 17.4 | 23 | |
| 6 | Graphene on cubic-SiC. <i>Progress in Materials Science</i> , 2017 , 89, 1-30 | 42.2 | 22 | |
| 5 | High Resolution STM Imaging 2015 , 561-619 | | O | |
| 4 | Transport Gap Opening and High On-Off Current Ratio in Trilayer Graphene with Self-Aligned Nanodomain Boundaries. <i>ACS Nano</i> , 2015 , 9, 8967-75 | 16.7 | 18 | |
| 3 | Rotated domain network in graphene on cubic-SiC(001). <i>Nanotechnology</i> , 2014 , 25, 135605 | 3.4 | 12 | |
| 2 | Continuous wafer-scale graphene on cubic-SiC(001). Nano Research, 2013, 6, 562-570 | 10 | 27 | |
| 1 | Writing with atoms: Oxygen adatoms on the MoO2/Mo(110) surface. <i>Nano Research</i> , 2013 , 6, 929-937 | 10 | 12 | |