Igor Sagalianov

List of Publications by Year in descending order

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25 papers	536 citations	687363 13 h-index	642732 23 g-index
26 all docs	26 docs citations	26 times ranked	570 citing authors

#	Article	IF	Citations
1	Chronic electrical stimulation of peripheral nerves via deep-red light transduced by an implanted organic photocapacitor. Nature Biomedical Engineering, 2022, 6, 741-753.	22.5	59
2	Straintronics in graphene: Extra large electronic band gap induced by tensile and shear strains. Journal of Applied Physics, 2019, 126, .	2.5	51
3	Effects of nitrogen-doping configurations with vacancies on conductivity in graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2270-2274.	2.1	49
4	The intrinsic volumetric capacitance of conducting polymers: pseudo-capacitors or double-layer supercapacitors?. RSC Advances, 2019, 9, 42498-42508.	3.6	48
5	UV-to-IR Absorption of Molecularly p-Doped Polythiophenes with Alkyl and Oligoether Side Chains: Experiment and Interpretation Based on Density Functional Theory. Journal of Physical Chemistry B, 2020, 124, 11280-11293.	2.6	45
6	Synergistic Enhancement of the Percolation Threshold in Hybrid Polymeric Nanocomposites Based on Carbon Nanotubes and Graphite Nanoplatelets. Nanoscale Research Letters, 2017, 12, 140.	5.7	41
7	On adatomic-configuration-mediated correlation between electrotransport and electrochemical properties of graphene. Carbon, 2016, 101, 37-48.	10.3	35
8	Defectâ€Patternâ€Induced Fingerprints in the Electron Density of States of Strained Graphene Layers: Diffraction and Simulation Methods. Physica Status Solidi (B): Basic Research, 2019, 256, 1800406.	1.5	29
9	Effect of uniaxial stress on the electrochemical properties of graphene with point defects. Applied Surface Science, 2018, 442, 185-188.	6.1	26
10	Mutual influence of uniaxial tensile strain and point defect pattern on electronic states in graphene. European Physical Journal B, 2017, 90, 1.	1.5	25
11	The strain- and impurity-dependent electron states and catalytic activity of graphene in a static magnetic field. Optical Materials, 2019, 96, 109284.	3.6	19
12	Direct measurement of oxygen reduction reactions at neurostimulation electrodes. Journal of Neural Engineering, 2022, 19, 036045.	3.5	19
13	Ultrathin Paper Microsupercapacitors for Electronic Skin Applications. Advanced Materials Technologies, 2022, 7, .	5.8	15
14	Strain- and Adsorption-Dependent Electronic States and Transport or Localization in Graphene. Springer Proceedings in Physics, 2018, , 25-41.	0.2	13
15	Optimization of multilayer electromagnetic shields: A genetic algorithm approach. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 263-271.	0.9	12
16	Faradaic Pixels for Precise Hydrogen Peroxide Delivery to Control Mâ€Type Voltageâ€Gated Potassium Channels. Advanced Science, 2022, 9, e2103132.	11.2	11
17	Volumetric Double-Layer Charge Storage in Composites Based on Conducting Polymer PEDOT and Cellulose. ACS Applied Energy Materials, 2021, 4, 8629-8640.	5.1	10
18	Unraveling the electronic properties of graphene with substitutional oxygen. 2D Materials, 2021, 8, 045035.	4.4	9

#	Article	IF	Citations
19	Microwave Properties of One-dimensional Photonic Structures Based on Composite Layers Filled with Nanocarbon. Nanoscale Research Letters, 2017, 12, 269.	5.7	5
20	Effect of weak impurities on conductivity of uniaxially strained graphene. , 2017, , .		4
21	Enhancement of electroconductivity and percolation threshold by the morphology of dielectric network in segregated polymer/nanocarbon composites. Materials Research Express, 2019, 6, 095019.	1.6	3
22	Influence of impurity defects on vibrational and electronic structure of graphene. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 183-187.	0.9	2
23	Modeling of gradient composite structures for shielding of microwaves. Molecular Crystals and Liquid Crystals, 2016, 639, 105-114.	0.9	2
24	Tuning the electron band structure of graphene for optoelectronics. , 2019, , .		2
25	Monte-Carlo study of the percolation in a binary composites: Hardcore and softcore models comparison. , 2017, , .		0