

Oleg Posudievsky

List of Publications by Citations

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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.

81
papers

917
citations

17
h-index

26
g-index

82
ext. papers

1,014
ext. citations

3.3
avg, IF

4.08
L-index

#	Paper	IF	Citations
81	Preparation of graphene oxide by solvent-free mechanochemical oxidation of graphite. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12465		66
80	Application of sensor arrays based on thin films of conducting polymers for chemical recognition of volatile organic solvents. <i>Sensors and Actuators B: Chemical</i> , 2009 , 135, 541-551	8.5	59
79	Improved dispersant-free liquid exfoliation down to the graphene-like state of solvent-free mechanochemically delaminated bulk MoS ₂ . <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6411	7.1	44
78	High yield of graphene by dispersant-free liquid exfoliation of mechanochemically delaminated graphite. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	42
77	New polyaniline/MoO ₃ nanocomposite as a result of direct polymer intercalation. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1446-1449		37
76	Structure-property relationship in mechanochemically prepared polyaniline. <i>Synthetic Metals</i> , 2010 , 160, 462-467	3.6	36
75	Ultrasound-free preparation of graphene oxide from mechanochemically oxidized graphite. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6658	13	32
74	Characteristics of mechanochemically prepared host-guest hybrid nanocomposites of vanadium oxide and conducting polymers. <i>Journal of Power Sources</i> , 2011 , 196, 3331-3341	8.9	32
73	New hybrid guest-host nanocomposites based on polyaniline, poly(ethylene oxide) and V ₂ O ₅ . <i>Journal of Materials Chemistry</i> , 2004 , 14, 1419-1423		29
72	Coherent anti-Stokes Raman scattering enhancement of thymine adsorbed on graphene oxide. <i>Nanoscale Research Letters</i> , 2014 , 9, 263	5	28
71	Comparative analysis of sensor responses of thin conducting polymer films to organic solvent vapors. <i>Sensors and Actuators B: Chemical</i> , 2011 , 151, 351-359	8.5	27
70	The Effect of Mechanochemical Treatment of the Cellulose on Characteristics of Nanocellulose Films. <i>Nanoscale Research Letters</i> , 2016 , 11, 410	5	27
69	Effect of solvent nature on liquid-phase self-assembly of MEH-PPV/MCM-41 guest-host composites. <i>Journal of Materials Chemistry</i> , 2006 , 16, 2485-2489		24
68	Efficient dispersant-free liquid exfoliation down to the graphene-like state of solvent-free mechanochemically delaminated bulk hexagonal boron nitride. <i>RSC Advances</i> , 2016 , 6, 47112-47119	3.7	23
67	Nanosized effects in composites based on polyaniline and vanadium or iron oxides. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 905-908	3.6	21
66	Electrochemical performance of mechanochemically prepared polyaniline doped with lithium salt. <i>Synthetic Metals</i> , 2012 , 162, 2206-2211	3.6	20
65	Mechanochemical preparation of conducting polymers and oligomers. <i>Synthetic Metals</i> , 2010 , 160, 47-51	3.6	20

64	12-Phosphormolibdic acid doped polyaniline/V ₂ O ₅ composite. <i>Synthetic Metals</i> , 2004 , 144, 107-111	3.6	17
63	Effect of host/guest versus core/shell structure on electrochemical characteristics of vanadium oxide/polypyrrole nanocomposites. <i>Electrochimica Acta</i> , 2011 , 58, 442-448	6.7	16
62	Adsorption on the surface of ionic crystals and the effect of applied electric field. <i>Surface Science</i> , 1986 , 169, 104-122	1.8	15
61	Effect of potential range on electrochemical performance of polyaniline as a component of lithium battery electrodes. <i>Electrochimica Acta</i> , 2015 , 184, 111-116	6.7	14
60	Effect of monomer/oxidant mole ratio on polymerization mechanism, conductivity and spectral characteristics of mechanochemically prepared polypyrrole. <i>Polymer Chemistry</i> , 2011 , 2, 216-220	4.9	14
59	Structural and Spectral Characteristics of Mechanochemically Prepared CsPbBr ₃ . <i>Theoretical and Experimental Chemistry</i> , 2017 , 53, 235-243	1.3	13
58	The specific effect of graphene additives in polyaniline-based nanocomposite layers on performance characteristics of electroluminescent and photovoltaic devices. <i>High Energy Chemistry</i> , 2016 , 50, 134-138	0.9	13
57	Enhancement of infrared absorption of biomolecules absorbed on single-wall carbon nanotubes and graphene nanosheets. <i>Journal of Nanophotonics</i> , 2012 , 6, 061711	1.1	12
56	Enhanced and tunable photoluminescence of polyphenylenevinylenes confined in nanocomposite films. <i>Nanoscale Research Letters</i> , 2015 , 10, 118	5	10
55	Estimation of multicomponent organic solvent vapor mixture composition with electroconducting polymer chemiresistors. <i>Sensors and Actuators B: Chemical</i> , 2016 , 232, 203-218	8.5	10
54	2D-BN nanoparticles as a spectroscopic marker and drug delivery system with protection properties.. <i>RSC Advances</i> , 2018 , 8, 30404-30411	3.7	10
53	Facile mechanochemical preparation of nitrogen and fluorine co-doped graphene and its electrocatalytic performance. <i>Carbon</i> , 2019 , 152, 274-283	10.4	9
52	Advanced electrochemical performance of hybrid nanocomposites based on LiFePO ₄ and lithium salt doped polyaniline. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 2733-2740	2.6	9
51	Nanostructured Mechanochemically Prepared Hybrid Perovskites Based on PbI ₂ and Alkylammonium Halides for Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2018 , 1, 4145-4155 ^{5.6}	5.6	9
50	The effect of the nature of the dopant on the sensor response of poly(3-methylthiophene) films. <i>Theoretical and Experimental Chemistry</i> , 2006 , 42, 339-345	1.3	9
49	Cathode performance of new hybrid guest/host nanocomposites based on poly(2,5-dimercaptothiophene). <i>Electrochemistry Communications</i> , 2005 , 7, 477-482	5.1	9
48	Heteropolyacid/m-cresol system as a primary/secondary dopant combination for polyaniline. <i>Synthetic Metals</i> , 2000 , 113, 199-201	3.6	9
47	Liquid exfoliation of mechanochemically nanostructured tungsten disulfide to a graphene-like state. <i>Nanotechnology</i> , 2018 , 29, 085704	3.4	8

46	Mechanochemical Delamination of Graphite in the Presence of Various Inorganic Salts and Formation of Graphene by Its Subsequent Liquid Exfoliation. <i>Theoretical and Experimental Chemistry</i> , 2014 , 50, 103-109	1.3	8
45	Mechanochemically prepared ternary hybrid cathode material for lithium batteries. <i>Electrochimica Acta</i> , 2013 , 109, 866-873	6.7	8
44	Mechanochemical synthesis of polyaniline in the presence of polymeric sulfonic acids of different structure. <i>Synthetic Metals</i> , 2013 , 180, 64-72	3.6	8
43	Effect of mechanochemical preparation of 2D g-C ₃ N ₄ on electronic properties and efficiency of photocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 17922-17929	6.7	7
42	Nanocomposite of Polyaniline with Partially Oxidized Graphene as the Transport Layer of Light-Emitting Polymer Diodes. <i>Theoretical and Experimental Chemistry</i> , 2014 , 50, 96-102	1.3	7
41	Structure and electronic properties of poly(3,4-ethylenedioxythiophene) poly(styrene sulfonate) prepared under ultrasonic irradiation. <i>Synthetic Metals</i> , 2014 , 195, 335-339	3.6	7
40	Effect of nanoscale confinement on fluorescence of MEH-PPV/MCM-41 composite. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 2174-2179	1.6	7
39	Effect of the Dopant Nature on the Response of Sensor Arrays Based on Polypyrrole. <i>Theoretical and Experimental Chemistry</i> , 2005 , 41, 277-283	1.3	7
38	Efficient Mechanochemical Preparation of Graphene-Like Molybdenum Disulfide and Graphene-Based Composite Electrocatalysts for Hydrogen Evolution Reaction. <i>Electrocatalysis</i> , 2019 , 10, 477-488	2.7	6
37	Laser induced anti-Stokes emission from graphene nanoparticles infiltrated into opal based photonic structure. <i>Optical Materials</i> , 2020 , 101, 109744	3.3	6
36	Mechanochemically prepared polyaniline and graphene-based nanocomposites as electrodes of supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 3419-3430	2.6	6
35	Effect of the Nature of the Dopant on the Response of a Sensor Array Based on Polyaniline. <i>Theoretical and Experimental Chemistry</i> , 2003 , 39, 219-224	1.3	6
34	Self-assembly of the deposited graphene-like nanoparticles and possible nanotrack artefacts in AFM studies. <i>Nano Express</i> , 2020 , 1, 010004	2	5
33	Extraction of optical constants of polyaniline thin films by surface plasmon resonance. <i>Thin Solid Films</i> , 2008 , 516, 6104-6109	2.2	5
32	Mechanochemically Prepared Nanocomposites Based on Polyaniline and Molybdenum and Tungsten Disulfides as Electrode Materials for Supercapacitors. <i>Theoretical and Experimental Chemistry</i> , 2018 , 54, 85-91	1.3	4
31	Mechanochemical Preparation of a MoS ₂ /Polyaniline Nanocomposite with High Electrochemical Capacity. <i>Theoretical and Experimental Chemistry</i> , 2015 , 51, 293-300	1.3	4
30	Carbon nanostructures in implanted nonconjugated polymers. <i>Radiation Effects and Defects in Solids</i> , 1995 , 137, 119-122	0.9	4
29	Luminescent Characteristics of Nanocomposite Films Based on Conjugated Copolymer Superyellow and Gold Nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2016 , 52, 67-74	1.3	3

28	CH ₃ NH ₃ PbBr ₃ Nanocrystals Formed in situ in Polystyrene Used for Increasing the Color Rendering Index of White Leds. <i>Theoretical and Experimental Chemistry</i> , 2019 , 55, 223-231	1.3	3
27	Physicochemical Properties of Chemically and Mechanochemically Prepared Interpolymer Complexes of Poly(3,4-Ethylenedioxythiophene) with Polyamidosulfonate Dopants. <i>Theoretical and Experimental Chemistry</i> , 2014 , 50, 21-28	1.3	3
26	Dual effect of 2D WS nanoparticles on the lysozyme conformation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2021 , 1869, 140556	4	3
25	Optical properties of graphene oxide coupled with 3D opal based photonic crystal. <i>Optical Materials</i> , 2018 , 86, 326-330	3.3	3
24	Effect of the Mechanochemical Preparation on the Fractional Composition and Spectral Characteristics of Graphene Oxide. <i>Theoretical and Experimental Chemistry</i> , 2017 , 53, 93-99	1.3	2
23	Effect of the Composition and Post-Synthesis Heat Treatment on the Electrochemical Characteristics of Polypyrrole/V ₂ O ₅ Nanocomposites Prepared by a Mechanochemical Method. <i>Theoretical and Experimental Chemistry</i> , 2015 , 51, 163-169	1.3	2
22	Effect of Modified SiO ₂ on Spectral Characteristics of Nanocomposite Films Based on Conjugated Copolymer Superyellow. <i>Theoretical and Experimental Chemistry</i> , 2016 , 52, 21-26	1.3	2
21	Modified Graphenes Prepared by the Interaction of Mechanochemically Nanostructured Graphite with Water and Aliphatic Alcohols. <i>Theoretical and Experimental Chemistry</i> , 2019 , 55, 96-102	1.3	2
20	Comparative Analysis of the IR Signal Enhancement of Biomolecules Adsorbed on Graphene and Graphene Oxide Nanosheets. <i>Springer Proceedings in Physics</i> , 2013 , 25-34	0.2	2
19	Metallic Conductivity of Mechanochemically Doped Polyaniline. <i>Theoretical and Experimental Chemistry</i> , 2014 , 50, 197-203	1.3	2
18	Few-layer versus mono-layer N-doped graphenes in oxygen reduction reaction. <i>Applied Surface Science</i> , 2022 , 580, 152279	6.7	2
17	Boosting graphene electrocatalytic efficiency in oxygen reduction reaction by mechanochemically induced low-temperature nitrogen doping. <i>Electrochimica Acta</i> , 2021 , 399, 139410	6.7	2
16	Spectral Characteristics of Mechanochemically Prepared Perovskite CH ₃ NH ₃ PbBr ₃ Nanoparticles Passivated by Amines with Different Alkyl Chain Length. <i>Theoretical and Experimental Chemistry</i> , 2019 , 55, 316-323	1.3	2
15	Electronic energy levels in lyotropic chromonic liquid crystals formed by ionic perylene diimide derivatives. <i>Synthetic Metals</i> , 2019 , 257, 116147	3.6	1
14	Effect of Mechanochemical Treatment of Cellulose on Characteristics of Nanocellulose Films. <i>Springer Proceedings in Physics</i> , 2016 , 513-521	0.2	1
13	Effect of the Nature of Exfoliating Agents on the Structure of Graphenes with Various Degrees of Oxidation Obtained by Mechanochemical Treatment. <i>Theoretical and Experimental Chemistry</i> , 2016 , 52, 3-9	1.3	1
12	Physicochemical properties of hybrid guest-host nanocomposites based on polyaniline. <i>Russian Chemical Bulletin</i> , 2005 , 54, 654-659	1.7	1
11	ELECTROCHEMISTRY OF FUNCTIONAL MATERIALS AND SYSTEMS (EFMS). <i>Ukrainian Chemistry Journal</i> , 2021 , 87, 61-76	0.4	1

10	Mechanochemical Synthesis of Nanosized Compounds in CeO ₂ -MoO ₃ System 2018 ,		1
9	Quenching of substituted polyparaphenylenes photoluminescence by 2D MoS ₂ and modified graphenes. <i>Synthetic Metals</i> , 2020 , 264, 116376	3.6	0
8	Effect of Confinement on Structural and Spectral Characteristics of Composites of CsPbX ₃ Halide Perovskite Nanoparticles with Zeolites of Faujasite Structure. <i>Theoretical and Experimental Chemistry</i> , 2021 , 57, 272-281	1.3	0
7	The effect of 2D tungsten disulfide nanoparticles on Lewis lung carcinoma cells .. <i>RSC Advances</i> , 2021 , 11, 16142-16150	3.7	0
6	Effect of Carbon Nanotube Functionalization on the Structure and Electrochemical Characteristics of Their Hybrid Nanocomposites with Polyaniline and Polypyrrole. <i>Theoretical and Experimental Chemistry</i> , 2014 , 50, 204-211	1.3	
5	Conducting Polymer Based Nanocomposite Materials for Various Functional Applications. <i>Theoretical and Experimental Chemistry</i> , 2017 , 53, 285-295	1.3	
4	Structure and electroluminescent properties of planar nanocomposites consisting of metal island film and organics 2004 , 5507, 90		
3	Topological nature of intrinsic structural defects in a trans-polyacetylene chain. <i>Theoretical and Experimental Chemistry</i> , 1989 , 25, 63-65	1.3	
2	Second quantization in the theory of chemisorption. <i>Theoretical and Experimental Chemistry</i> , 1984 , 20, 251-263	1.3	
1	Conducting Polymer-based Hybrid Nanocomposites as Promising Electrode Materials for Lithium Batteries 2016 , 355-396		