

Igor Asanov

List of Publications by Year in descending order

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papers

1,754
citations

279798

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82
docs citations

82
times ranked

2248
citing authors

#	ARTICLE	IF	CITATIONS
1	Photolysis of Fluorinated Graphites with Embedded Acetonitrile Using a White-Beam Synchrotron Radiation. <i>Nanomaterials</i> , 2022, 12, 231.	4.1	4
2	Sulfuric Acid Solutions of $[\text{Pt}(\text{OH})_4(\text{H}_2\text{O})_2]$: A Platinum Speciation Survey and Hydrated Pt(IV) Oxide Formation for Practical Use. <i>Inorganic Chemistry</i> , 2022, 61, 9667-9684.	4.0	7
3	Porosity and composition of nitrogen-doped carbon materials templated by the thermolysis products of calcium tartrate and their performance in electrochemical capacitors. <i>Journal of Alloys and Compounds</i> , 2021, 858, 158259.	5.5	11
4	Investigation of the phase composition and photoluminescence of CVD $(\text{YxGdyEuz})_2\text{O}_3$ films on Si substrates after annealing in the air. <i>Journal of Luminescence</i> , 2021, 233, 117842.	3.1	0
5	Enhancement of Volumetric Capacitance of Binder-Free Single-Walled Carbon Nanotube Film via Fluorination. <i>Nanomaterials</i> , 2021, 11, 1135.	4.1	6
6	Effect of Toluene Addition in an Electric Arc on Morphology, Surface Modification, and Oxidation Behavior of Carbon Nanohorns and Their Sedimentation in Water. <i>Nanomaterials</i> , 2021, 11, 992.	4.1	4
7	MOCVD of Noble Metal Film Materials for Medical Implants: Microstructure and Biocompatibility of Ir and Au/Ir Coatings on TiNi. <i>Coatings</i> , 2021, 11, 638.	2.6	5
8	Ni-N4 sites in a single-atom Ni catalyst on N-doped carbon for hydrogen production from formic acid. <i>Journal of Catalysis</i> , 2021, 402, 264-274.	6.2	41
9	Redox reactions between acetonitrile and nitrogen dioxide in the interlayer space of fluorinated graphite matrices. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10580-10590.	2.8	8
10	Local atomic and electronic structure of Pt-Os nanoplates and nanofibers derived from the single-source precursor $(\text{NH}_4)_2[\text{Pt}_0.5\text{Os}_0.5\text{Cl}_6]$. <i>Journal of Nanoparticle Research</i> , 2021, 24, 1.	1.9	2
11	Structure of Diamond Films Grown Using High-Speed Flow of a Thermally Activated $\text{CH}_4\text{-H}_2$ Gas Mixture. <i>Materials</i> , 2020, 13, 219.	2.9	9
12	Studying the Process of $(\text{NH}_4)_2[\text{IrCl}_6]$ Thermal Decomposition by X-Ray Photoelectron Spectroscopy and Electron Microscopy. <i>Journal of Structural Chemistry</i> , 2020, 61, 388-399.	1.0	4
13	Chemiresistive Properties of Imprinted Fluorinated Graphene Films. <i>Materials</i> , 2020, 13, 3538.	2.9	11
14	Structural and Optical Properties of N-Doped and B-Doped Carbon Dots. <i>Journal of Structural Chemistry</i> , 2020, 61, 818-825.	1.0	13
15	Features of Extended XPS Spectra of $\text{C}_2\text{FBr}_{0.15}$ Intercalate and Silver Foil. <i>Journal of Structural Chemistry</i> , 2020, 61, 523-532.	1.0	1
16	MWCNT buckypaper/polypyrrole nanocomposites for supercapacitor application. <i>Electrochimica Acta</i> , 2020, 335, 135700.	5.2	32
17	Hexamolybdenum Clusters Supported on Exfoliated h-BN Nanosheets for Photocatalytic Water Purification. <i>Inorganic Chemistry</i> , 2020, 59, 6439-6448.	4.0	33
18	Purification of Single-Walled Carbon Nanotubes Using Acid Treatment and Magnetic Separation. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800742.	1.5	28

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19	Hydrogen Production from Formic Acid over Au Catalysts Supported on Carbon: Comparison with Au Catalysts Supported on SiO ₂ and Al ₂ O ₃ . Catalysts, 2019, 9, 376.	3.5	24
20	Oxalato complexes of Pd(II) with Co(II) and Ni(II) as single-source precursors for bimetallic nanoalloys. Journal of Thermal Analysis and Calorimetry, 2019, 138, 111-121.	3.6	14
21	Redox Processes in Reduced Graphite Oxide Decorated by Carboxyl Functional Groups. Physica Status Solidi (B): Basic Research, 2019, 256, 1800700.	1.5	13
22	The Role of Support in Formic Acid Decomposition on Gold Catalysts. Energies, 2019, 12, 4198.	3.1	7
23	Effects of the Carbon Support Doping with Nitrogen for the Hydrogen Production from Formic Acid over Ni Catalysts. Energies, 2019, 12, 4111.	3.1	20
24	A new approach towards the study of thermal decomposition and formation processes of nanoalloys: the double complex salt [Pd(NH ₃) ₃] ₄ [PtCl ₆]. New Journal of Chemistry, 2018, 42, 5071-5082.	2.8	14
25	Complex salts of Pd(II) and Pt(II) with Co(II) and Ni(II) aqua-cations as single-source precursors for bimetallic nanoalloys and mixed oxides. New Journal of Chemistry, 2018, 42, 8843-8850.	2.8	14
26	Exothermal effects in the thermal decomposition of [IrCl ₆] ²⁻ -containing salts with [M(NH ₃) ₅ Cl] ²⁺ cations: [M(NH ₃) ₃] ₅ [IrCl ₆] (M = Co, Cr, Ru, Rh, Ir). New Journal of Chemistry, 2018, 42, 1762-1770.	2.8	13
27	Effect of Hydrogen Fluoride Addition and Synthesis Temperature on the Structure of Double-Walled Carbon Nanotubes Fluorinated by Molecular Fluorine. Physica Status Solidi (B): Basic Research, 2018, 255, 1700261.	1.5	4
28	An Xps Study of Solid Solutions Mo _{1-x} Nb _x S ₂ (0 < x < 0.15). Journal of Structural Chemistry, 2018, 59, 1833-1840.	1.0	1
29	An Xps and Low-Temperature Nitrogen Adsorption Study of the Structure of Carbon-Fluorocarbon Nanocomposites. Journal of Structural Chemistry, 2018, 59, 1841-1848.	1.0	2
30	Effect of Hot Pressing on the Electrochemical Performance of Multilayer Holey Graphene Materials in Li-ion Batteries. Physica Status Solidi (B): Basic Research, 2018, 255, 1800202.	1.5	6
31	XPS experimental and DFT investigations on solid solutions of Mo _{1-x} Re _x S ₂ (0 < x < 0.20). Nanoscale, 2018, 10, 10232-10240.	5.6	23
32	Electronic and structural peculiarities of Br ₂ -embedded C ₂ F: XPS and DFT study. AIP Advances, 2018, 8, 085319.	1.3	5
33	Structure and supercapacitor properties of few-layer low-fluorinated graphene materials. Journal of Materials Science, 2018, 53, 13053-13066.	3.7	18
34	Copper on carbon materials: stabilization by nitrogen doping. Journal of Materials Chemistry A, 2017, 5, 10574-10583.	10.3	103
35	Extra electronic outer-shell peculiarities accessible under a joint XPS and DFT study. Physical Chemistry Chemical Physics, 2017, 19, 15842-15848.	2.8	5
36	Advantage of graphene fluorination instead of oxygenation for restorable adsorption of gaseous ammonia and nitrogen dioxide. Carbon, 2017, 118, 225-232.	10.3	33

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37	Effect of the graphite oxide composition on the structure of products obtained by sulfuric acid treatment at elevated temperatures. <i>Journal of Structural Chemistry</i> , 2017, 58, 1180-1186.	1.0	11
38	Study of chemical bonds and element composition of silicon oxycarbonitride films by the methods of XP-, IR-, and energy-dispersive spectroscopy. <i>Glass Physics and Chemistry</i> , 2017, 43, 410-416.	0.7	2
39	In situ X-ray spectroscopic investigation of thermal decomposition of double complex salt [Pt(NH ₃) ₄][OsCl ₆]. <i>Journal of Structural Chemistry</i> , 2017, 58, 901-910.	1.0	7
40	Identification of conjugate electron transitions in X-ray photoelectron spectra. <i>Journal of Structural Chemistry</i> , 2017, 58, 1160-1165.	1.0	3
41	PtPd-nanoparticles supported by new carbon materials. <i>Journal of Structural Chemistry</i> , 2016, 57, 1398-1406.	1.0	2
42	Thermal decomposition of ammonium hexachloroosmate. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33134-33141.	2.8	9
43	Thermally exfoliated fluorinated graphite for NO ₂ gas sensing. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2492-2498.	1.5	14
44	Effect of oxidative treatment on the electrochemical properties of aligned multi-walled carbon nanotubes. <i>Russian Journal of Electrochemistry</i> , 2016, 52, 441-448.	0.9	17
45	Fabrication of free-standing aligned multiwalled carbon nanotube array for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 311, 42-48.	7.8	29
46	Field emission properties of aligned CN _x nanotube arrays synthesized by pyrolysis of a ferrocene/acetonitrile aerosol at different temperatures. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2524-2529.	1.5	9
47	MOCVD growth of Pt films using a novel Pt(IV) compound as a precursor. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 1053-1059.	0.8	4
48	Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements. <i>Scientific Reports</i> , 2015, 5, 13382.	3.3	39
49	Field emission luminescence of nanodiamonds deposited on the aligned carbon nanotube array. <i>Scientific Reports</i> , 2015, 5, 9379.	3.3	52
50	MOCVD Synthesis of Terbium Oxide Films and their Optical Properties. <i>Chemical Vapor Deposition</i> , 2015, 21, 150-155.	1.3	16
51	Sensor properties of electron beam irradiated fluorinated graphite. <i>Journal of Nanophotonics</i> , 2015, 10, 012512.	1.0	10
52	A backside fluorine-functionalized graphene layer for ammonia detection. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 444-450.	2.8	42
53	Charge-induced formation of thin conducting layers on fluorinated graphite surface. <i>Carbon</i> , 2015, 82, 446-458.	10.3	25
54	Nitrogen inserting in fluorinated graphene via annealing of acetonitrile intercalated graphite fluoride. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2530-2535.	1.5	19

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55	Structure and supercapacitor performance of graphene materials obtained from brominated and fluorinated graphites. Carbon, 2014, 78, 137-146.	10.3	62
56	Energy shift of collective electron excitations in highly corrugated graphitic nanostructures: Experimental and theoretical investigation. Applied Physics Letters, 2014, 104, .	3.3	15
57	Anisotropy of Chemical Bonding in Semifluorinated Graphite C ₂ F Revealed with Angle-Resolved X-ray Absorption Spectroscopy. ACS Nano, 2013, 7, 65-74.	14.6	61
58	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. Journal of Applied Physics, 2013, 113, .	2.5	56
59	Graphene nanochains and nanoislands in the layers of room-temperature fluorinated graphite. Carbon, 2013, 59, 518-529.	10.3	57
60	Functional composition and super-capacitor properties of graphite oxide reduced with hot sulfuric acid. Physica Status Solidi (B): Basic Research, 2013, 250, 2747-2752.	1.5	17
61	Bromination of Double-Walled Carbon Nanotubes. Chemistry of Materials, 2012, 24, 2708-2715.	6.7	76
62	Perforation of graphite in boiling mineral acid. Physica Status Solidi (B): Basic Research, 2012, 249, 2620-2624.	1.5	16
63	Thermal Decomposition of Co-Doped Calcium Tartrate and Use of the Products for Catalytic Chemical Vapor Deposition Synthesis of Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 343-351.	3.1	8
64	Layered compounds based on perforated graphene. Journal of Structural Chemistry, 2011, 52, 903-909.	1.0	11
65	Electronic structure of the chlorinated fullerene C ₆₀ Cl ₃₀ studied by quantum chemical modeling of X-ray absorption spectra. International Journal of Quantum Chemistry, 2011, 111, 2688-2695.	2.0	8
66	Composites based on polyaniline and aligned carbon nanotubes. Polymer Science - Series B, 2010, 52, 101-108.	0.8	8
67	Interaction of NH ₃ with the reduced surface of graphite fluoride C ₂ F. Physica Status Solidi (B): Basic Research, 2010, 247, 3039-3042.	1.5	13
68	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. Chemistry of Materials, 2010, 22, 4197-4203.	6.7	49
69	Development of graphene layers by reduction of graphite fluoride C ₂ F surface. Physica Status Solidi (B): Basic Research, 2009, 246, 2545-2548.	1.5	24
70	Effect of nitrogen doping on Raman spectra of multi-walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 1971-1974.	1.5	169
71	Influence of Ni~Co Catalyst Composition on Nitrogen Content in Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 9048-9053.	2.6	114
72	Title is missing!. Inorganic Materials, 2003, 39, 117-122.	0.8	3

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73	Synthesis and Study of Potassium Hexabromoiridate(IV). Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2002, 28, 864-866.	1.0	3
74	Title is missing!. Journal of Structural Chemistry, 2002, 43, 843-855.	1.0	9
75	Comparative Study on the Electronic Structure of Arc-Discharge and Catalytic Carbon Nanotubes. Journal of Physical Chemistry B, 2001, 105, 4853-4859.	2.6	29
76	Title is missing!. Journal of Structural Chemistry, 2001, 42, 251-260.	1.0	3
77	Title is missing!. Russian Journal of Electrochemistry, 2001, 37, 1269-1276.	0.9	13
78	Pyrrhotite Electrooxidation in Acid Solutions. Russian Journal of Electrochemistry, 2001, 37, 1277-1282.	0.9	14
79	Flotation behavior of sulfides on mechanical activation. Journal of Mining Science, 2000, 36, 87-90.	0.6	4
80	Chemical vapor deposition of pyrolytic boron nitride from borazine. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 94-98.	2.1	19
81	X-ray Spectroscopic and Quantum-Chemical Characterization of Hydrofullerene C ₆₀ H ₃₆ . Journal of Physical Chemistry A, 1999, 103, 716-720.	2.5	25
82	X-ray photoelectron study of fluorinated graphite intercalation compounds. Journal of Structural Chemistry, 1998, 39, 928-932.	1.0	20