

Vyacheslav Khavrus

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,421
citations

430874

18
h-index

330143

37
g-index

50
all docs

50
docs citations

50
times ranked

1980
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Dispersion of carbon nanotubes and its influence on the mechanical properties of the cement matrix. <i>Cement and Concrete Composites</i> , 2012, 34, 1104-1113. | 10.7 | 360 |
| 2 | The synthesis of carbon coated Fe, Co and Ni nanoparticles and an examination of their magnetic properties. <i>Carbon</i> , 2009, 47, 2821-2828. | 10.3 | 184 |
| 3 | 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. | 7.8 | 106 |
| 4 | Synthesis, characterization, and electrical properties of nitrogen-doped single-walled carbon nanotubes with different nitrogen content. <i>Diamond and Related Materials</i> , 2010, 19, 1199-1206. | 3.9 | 74 |
| 5 | 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. | 7.8 | 52 |
| 6 | Highly sensitive room temperature ammonia gas sensor using pristine graphene: The role of biocompatible stabilizer. <i>Carbon</i> , 2021, 173, 262-270. | 10.3 | 46 |
| 7 | Surface properties of CNTs and their interaction with silica. <i>Journal of Colloid and Interface Science</i> , 2014, 413, 43-53. | 9.4 | 40 |
| 8 | Superparamagnetic FeCo and FeNi Nanocomposites Dispersed in Submicrometer-Sized C Spheres. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22509-22517. | 3.1 | 37 |
| 9 | Morphology, Structural Control, and Magnetic Properties of Carbon-Coated Nanoscaled NiRu Alloys. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10745-10749. | 3.1 | 32 |
| 10 | Tuning the morphology of ZnO nanostructure by in doping and the associated variation in electrical and optical properties. <i>Ceramics International</i> , 2015, 41, 10116-10124. | 4.8 | 31 |
| 11 | Application of Carbon Nanotubes Directly Grown on Aluminum Foils as Electric Double Layer Capacitor Electrodes. <i>Chemical Vapor Deposition</i> , 2012, 18, 53-60. | 1.3 | 28 |
| 12 | Highly biocompatible superparamagnetic Ni nanoparticles dispersed in submicron-sized C spheres. <i>Carbon</i> , 2013, 63, 358-366. | 10.3 | 26 |
| 13 | Effect of Carbon-Based Materials on the Early Hydration of Tricalcium Silicate. <i>Journal of the American Ceramic Society</i> , 2016, 99, 2181-2196. | 3.8 | 26 |
| 14 | Boron-Doped Single-Walled Carbon Nanotubes with Enhanced Thermoelectric Power Factor for Flexible Thermoelectric Devices. <i>ACS Applied Energy Materials</i> , 2020, 3, 2556-2564. | 5.1 | 25 |
| 15 | Introduction to solar motion geometry on the basis of a simple model. <i>Physics Education</i> , 2010, 45, 641-653. | 0.5 | 22 |
| 16 | Potential of the analyte pulse perturbation technique for the determination of polyphenols based on the Belousov-Zhabotinskii reaction. <i>Analyst</i> , 2000, 125, 2118-2124. | 3.5 | 21 |
| 17 | Boron Doping of SWCNTs as a Way to Enhance the Thermoelectric Properties of Melt-Mixed Polypropylene/SWCNT Composites. <i>Energies</i> , 2020, 13, 394. | 3.1 | 20 |
| 18 | Single-step synthesis of metal-coated well-aligned CNx nanotubes using an aerosol-technique. <i>Carbon</i> , 2007, 45, 2889-2896. | 10.3 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Novel carbon nanotube composites by grafting reaction with water-compatible redox initiator system. <i>Colloid and Polymer Science</i> , 2013, 291, 699-708. | 2.1 | 19 |
| 20 | Machine Learning-Enabled Smart Gas Sensing Platform for Identification of Industrial Gases. <i>Advanced Intelligent Systems</i> , 2022, 4, . | 6.1 | 18 |
| 21 | Conditions of Simultaneous Growth and Separation of Single- and Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 843-848. | 3.1 | 16 |
| 22 | Determination of gases (NO, CO, Cl ₂) using mixed-mode regimes in the Belousov-Zhabotinskii oscillating chemical reaction. <i>Talanta</i> , 2000, 51, 935-947. | 5.5 | 15 |
| 23 | Chemical catalytic vapor deposition (CCVD) synthesis of carbon nanotubes by decomposition of ethylene on metal (Ni, Co, Fe) nanoparticles. <i>Reaction Kinetics and Catalysis Letters</i> , 2008, 93, 295-303. | 0.6 | 15 |
| 24 | Geometry and the physics of seasons. <i>Physics Education</i> , 2012, 47, 680-692. | 0.5 | 15 |
| 25 | Synthesis of superparamagnetic nanoparticles dispersed in spherically shaped carbon nanoballs. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1. | 1.9 | 14 |
| 26 | 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. | 8.0 | 14 |
| 27 | Title is missing!. <i>Kinetics and Catalysis</i> , 2002, 43, 233-244. | 1.0 | 13 |
| 28 | Resistance-heating of carbon nanotube yarns in different atmospheres. <i>Carbon</i> , 2018, 133, 232-238. | 10.3 | 12 |
| 29 | High-pressure catalytic chemical vapor deposition of ferromagnetic ruthenium-containing carbon nanostructures. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1. | 1.9 | 11 |
| 30 | Morphology of carbon nanotubes, obtained by decomposition of ethylene on nickel nanoparticles at various rates of flow and concentration of C ₂ H ₄ . <i>Theoretical and Experimental Chemistry</i> , 2008, 44, 240-244. | 0.8 | 10 |
| 31 | Systematic Investigations of Annealing and Functionalization of Carbon Nanotube Yarns. <i>Molecules</i> , 2020, 25, 1144. | 3.8 | 10 |
| 32 | Catalytic synthesis of carbon nanotubes from ethylene in the presence of water vapor. <i>Theoretical and Experimental Chemistry</i> , 2006, 42, 234-238. | 0.8 | 9 |
| 33 | On the potential of long carbon nanotube forest for sensing gases and vapors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1199-1207. | 2.7 | 9 |
| 34 | Fractal analysis of carbon nanotube agglomerates obtained by chemical vapor decomposition of ethylene over nickel nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2009, 45, 103-107. | 0.8 | 8 |
| 35 | A Comparative Study of Various Supported Catalysts on the Growth of Aligned Carbon Nanotube Forests on Aluminum Foils. <i>Chemical Vapor Deposition</i> , 2012, 18, 326-335. | 1.3 | 8 |
| 36 | Optical and transport properties of few quintuple-layers of Bi ₂ -xSbxSe ₃ nanoflakes synthesized by hydrothermal method. <i>Journal of Alloys and Compounds</i> , 2019, 804, 272-280. | 5.5 | 8 |

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|----|---|-----|-----------|
| 37 | The effect of oxygen on time-dependent bifurcations in the Belousovâ€“Zhabotinsky oscillating chemical reaction in a batch. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1680-1686. | 2.8 | 7 |
| 38 | Effect of NO, CO, and Cl ₂ on Mixed-Mode Regimes in the Belousovâˆ“Zhabotinsky Oscillating Chemical Reaction in a CSTR. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2505-2511. | 2.5 | 6 |
| 39 | Structural parameters of carbon nanotubes obtained by the chemical vapor decomposition of ethylene onto nickel nanoparticles deposited on basic supports. <i>Theoretical and Experimental Chemistry</i> , 2010, 46, 296-301. | 0.8 | 6 |
| 40 | Effect of surfactant concentration on the morphology and thermoelectric power factor of PbTe nanostructures prepared by a hydrothermal route. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 125, 114396. | 2.7 | 6 |
| 41 | Conditions for Mixed Mode Oscillations and Deterministic Chaos in Nonlinear Chemical Systems. <i>Theoretical and Experimental Chemistry</i> , 2002, 38, 301-307. | 0.8 | 4 |
| 42 | New coating materials for hydrocarbon discrimination using a multisensor system and gas chromatography. <i>Theoretical and Experimental Chemistry</i> , 2005, 41, 389-394. | 0.8 | 4 |
| 43 | Tailoring the thermoelectric properties of Pb _{1-x} Sm _x Te nanostructures via Sm doping. <i>Intermetallics</i> , 2020, 125, 106923. | 3.9 | 4 |
| 44 | Macroscopically structured polymer formation governed by spatial patterns in the Belousovâ€“Zhabotinsky reaction. <i>Chemical Physics Letters</i> , 2002, 363, 534-539. | 2.6 | 3 |
| 45 | Scalings of mixed-mode regimes in a simple polynomial three-variable model of nonlinear dynamical systems. <i>Chaos</i> , 2003, 13, 112-122. | 2.5 | 3 |
| 46 | Microstructural improvements of the gradient composite material Pr _{0.6} Sr _{0.4} Fe _{0.8} Co _{0.2} O ₃ /Ce _{0.8} Sm _{0.2} O _{1.9} by employing vertically aligned carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4074-4080. | 7.1 | 3 |
| 47 | Kinetic scheme for a ferroin-catalyzed belousov-zhabotinskii reaction with compound-period transient states. <i>Theoretical and Experimental Chemistry</i> , 1998, 34, 138-143. | 0.8 | 2 |
| 48 | Title is missing!. <i>Theoretical and Experimental Chemistry</i> , 2002, 38, 375-380. | 0.8 | 0 |
| 49 | Supramolecular Functionalized Pristine Graphene Utilizing a Bio-Compatible Stabilizer towards Ultra-Sensitive Ammonia Detection. <i>Engineering Proceedings</i> , 2021, 6, 14. | 0.4 | 0 |
| 50 | Proton radiation effects on the optical properties of vertically aligned carbon nanotubes. , 2017, , . | | 0 |