

Mikhail E Itkis

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,925
citations

201385

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docs citations

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times ranked

6351
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Mesocrystalline Ordering and Phase Transformation of Iron Oxide Biominerals in the Ultrahard Teeth of <i>Cryptochiton stelleri</i> . <i>Small Structures</i> , 2022, 3, . | 6.9 | 11 |
| 2 | Fe ₅ Ge ₂ Te ₂ a New Exfoliable Itinerant Ferromagnet with High Curie Temperature and Large Perpendicular Magnetic Anisotropy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900666. | 1.2 | 9 |
| 3 | A Delicate Balance between Antiferromagnetism and Ferromagnetism: Theoretical and Experimental Studies of A ₂ MRu ₅ B ₂ (A=Zr, Hf; M=Fe, Mn) Metal Borides. <i>Chemistry - A European Journal</i> , 2020, 26, 1979-1988. | 1.7 | 5 |
| 4 | Covalent Atomic Bridges Enable Unidirectional Enhancement of Electronic Transport in Aligned Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 19315-19323. | 4.0 | 27 |
| 5 | MoS ₂ -Based Optoelectronic Gas Sensor with Sub-parts-per-billion Limit of NO ₂ Gas Detection. <i>ACS Nano</i> , 2019, 13, 3196-3205. | 7.3 | 349 |
| 6 | Effect of Substitution on the Hysteretic Phase Transition in a Bistable Phenalenyl-Based Neutral Radical Molecular Conductor. <i>Chemistry - A European Journal</i> , 2019, 25, 4166-4174. | 1.7 | 2 |
| 7 | Phenalenyl based neutral radical as a novel electrochromic material modulating visible to short-wave infrared light. <i>RSC Advances</i> , 2018, 8, 42068-42072. | 1.7 | 3 |
| 8 | Confined Lithium-Sulfur Reactions in Narrow-Diameter Carbon Nanotubes Reveal Enhanced Electrochemical Reactivity. <i>ACS Nano</i> , 2018, 12, 9775-9784. | 7.3 | 61 |
| 9 | Effect of constructive rehybridization on transverse conductivity of aligned single-walled carbon nanotube films. <i>Materials Today</i> , 2018, 21, 937-943. | 8.3 | 10 |
| 10 | High Modulation Speed, Depth, and Coloration Efficiency of Carbon Nanotube Thin Film Electrochromic Device Achieved by Counter Electrode Impedance Matching. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800861. | 1.9 | 19 |
| 11 | Visible-Blind UV Photodetector Based on Single-Walled Carbon Nanotube Thin Film/ZnO Vertical Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37094-37104. | 4.0 | 67 |
| 12 | Unexpected Competition between Antiferromagnetic and Ferromagnetic States in Hf ₂ MnRu ₅ B ₂ : Predicted and Realized. <i>Inorganic Chemistry</i> , 2017, 56, 12674-12677. | 1.9 | 10 |
| 13 | Fast Electrochromic Device Based on Single-Walled Carbon Nanotube Thin Films. <i>Nano Letters</i> , 2016, 16, 5386-5393. | 4.5 | 77 |
| 14 | Giant Raman Response to the Encapsulation of Sulfur in Narrow Diameter Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2016, 138, 40-43. | 6.6 | 43 |
| 15 | Application of Hybrid Fillers for Improving the Through-Plane Heat Transport in Graphite Nanoplatelet-Based Thermal Interface Layers. <i>Scientific Reports</i> , 2015, 5, 13108. | 1.6 | 20 |
| 16 | Networks of Semiconducting SWNTs: Contribution of Midgap Electronic States to the Electrical Transport. <i>Accounts of Chemical Research</i> , 2015, 48, 2270-2279. | 7.6 | 37 |
| 17 | Band Structure Engineering by Substitutional Doping in Solid-State Solutions of [5-Me-PLY(O,O)] ₂ B ₂ (I) Be Radical Crystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 10000-10008. | 6.6 | 16 |
| 18 | Ionic Liquid Gating of Suspended MoS ₂ Field Effect Transistor Devices. <i>Nano Letters</i> , 2015, 15, 5284-5288. | 4.5 | 71 |

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|----|--|------|-----------|
| 19 | Effect of Lanthanide Metal Complexation on the Properties and Electronic Structure of Single-Walled Carbon Nanotube Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28013-28018. | 4.0 | 5 |
| 20 | Enhanced Electrical Conductivity in a Substitutionally Doped Spiro-bis(phenalenyl)boron Radical Molecular Solid. <i>Journal of the American Chemical Society</i> , 2014, 136, 14738-14741. | 6.6 | 30 |
| 21 | Effect of Atomic Interconnects on Percolation in Single-Walled Carbon Nanotube Thin Film Networks. <i>Nano Letters</i> , 2014, 14, 3930-3937. | 4.5 | 42 |
| 22 | Effect of Covalent Chemistry on the Electronic Structure and Properties of Carbon Nanotubes and Graphene. <i>Accounts of Chemical Research</i> , 2013, 46, 65-76. | 7.6 | 161 |
| 23 | Charge-compensated, semiconducting single-walled carbon nanotube thin film as an electrically configurable optical medium. <i>Nature Photonics</i> , 2013, 7, 459-465. | 15.6 | 37 |
| 24 | Anisotropic Thermal and Electrical Properties of Thin Thermal Interface Layers of Graphite Nanoplatelet-Based Composites. <i>Scientific Reports</i> , 2013, 3, . | 1.6 | 135 |
| 25 | Effect of first row transition metals on the conductivity of semiconducting single-walled carbon nanotube networks. <i>Applied Physics Letters</i> , 2012, 100, . | 1.5 | 28 |
| 26 | Sulfur and selenium substituted spiro-biphenalenyl-boron neutral radicals. <i>Journal of Materials Chemistry</i> , 2012, 22, 8245. | 6.7 | 17 |
| 27 | Synthesis, Structure and Solid State Properties of Cyclohexanemethylamine Substituted Phenalenyl Based Molecular Conductor. <i>Crystals</i> , 2012, 2, 446-465. | 1.0 | 4 |
| 28 | Solidâ€state Bisâ€hexahaptoâ€metal complexation of singleâ€walled carbon nanotubes. <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 607-610. | 0.9 | 26 |
| 29 | Synthesis, structure and solid state properties of benzannulated phenalenyl based neutral radical conductor. <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 566-573. | 0.9 | 11 |
| 30 | Nonlocal spin transport in single-walled carbon nanotube networks. <i>Physical Review B</i> , 2012, 85, . | 1.1 | 16 |
| 31 | Hexahaptoâ€Metal Complexes of Singleâ€Walled Carbon Nanotubes. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 1001-1019. | 1.1 | 35 |
| 32 | High Energy Density Supercapacitor Based on a Hybrid Carbon Nanotubeâ€Reduced Graphite Oxide Architecture. <i>Advanced Energy Materials</i> , 2012, 2, 438-444. | 10.2 | 182 |
| 33 | Enhanced photosensitivity of electro-oxidized epitaxial graphene. <i>Applied Physics Letters</i> , 2011, 98, . | 1.5 | 21 |
| 34 | Enhanced Electromodulation of Infrared Transmittance in Semitransparent Films of Large Diameter Semiconducting Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2010, 10, 937-942. | 4.5 | 26 |
| 35 | Hysteretic Spin and Charge Delocalization in a Phenalenyl-Based Molecular Conductor. <i>Journal of the American Chemical Society</i> , 2010, 132, 17258-17264. | 6.6 | 64 |
| 36 | Chemical approach to the realization of electronic devices in epitaxial graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 184-186. | 1.2 | 39 |

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|----|--|-----|-----------|
| 37 | Single-Walled Carbon Nanotube Thin Film Emitter-Detector Integrated Optoelectronic Device. Nano Letters, 2008, 8, 2224-2228. | 4.5 | 45 |
| 38 | Carbon Nanotube Free-Standing Film of Pt/MWNTs as a Bifunctional Component in Hydrogen Proton Exchange Membrane Fuel Cells. Materials Research Society Symposia Proceedings, 2007, 1018, 1. | 0.1 | 0 |
| 39 | Thermal Conductivity Measurements of Semitransparent Single-Walled Carbon Nanotube Films by a Bolometric Technique. Nano Letters, 2007, 7, 900-904. | 4.5 | 100 |
| 40 | Bolometric Infrared Photoresponse of Suspended Single-Walled Carbon Nanotube Films. Science, 2006, 312, 413-416. | 6.0 | 446 |
| 41 | ZnO growth on Si with low-temperature ZnO buffer layers by ECR-assisted MBE. Journal of Crystal Growth, 2006, 286, 61-65. | 0.7 | 57 |
| 42 | Effect of single-walled carbon nanotube purity on the thermal conductivity of carbon nanotube-based composites. Applied Physics Letters, 2006, 89, 133102. | 1.5 | 146 |
| 43 | Comparison of Analytical Techniques for Purity Evaluation of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 3439-3448. | 6.6 | 309 |
| 44 | Electronic Properties of Single-Walled Carbon Nanotube Networks. Journal of the American Chemical Society, 2005, 127, 5990-5995. | 6.6 | 363 |
| 45 | Bistability and the Phase Transition in 1,3,2-Dithiazolo[4,5-b]pyrazin-2-yl. Journal of the American Chemical Society, 2004, 126, 14692-14693. | 6.6 | 120 |
| 46 | Nitric Acid Purification of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 13838-13842. | 1.2 | 472 |
| 47 | Structure-property trends in π -stacked dithiazolo-dithiazolyl conductors. Chemical Communications, 2002, , 2562-2563. | 2.2 | 37 |
| 48 | A 1,2,3,5-dithiadiazolyl dimeric radical cation. Preparation and solid state characterization of 1,3-[(S ₂ N ₂ C)C ₆ H ₄ (CN ₂ S ₂)] ₂ [Cl] ₃ . CrystEngComm, 2002, 4, 205. | 1.3 | 11 |
| 49 | Resonance-Stabilized 1,2,3-Dithiazolo-1,2,3-dithiazolyls as Neutral π -Radical Conductors. Journal of the American Chemical Society, 2002, 124, 9498-9509. | 6.6 | 103 |