

Mikhail E Itkis

List of Publications by Year in descending order

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49
papers

3,925
citations

201674
27
h-index

206112
48
g-index

50
all docs

50
docs citations

50
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> . Small Structures, 2022, 3, .	12.0	11
2	Fe ₅ Ge ₂ Te ₂ a New Exfoliable Itinerant Ferromagnet with High Curie Temperature and Large Perpendicular Magnetic Anisotropy. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900666.	2.4	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. Chemistry - A European Journal, 2020, 26, 1979-1988.	3.3	5
4	Covalent Atomic Bridges Enable Unidirectional Enhancement of Electronic Transport in Aligned Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 19315-19323.	8.0	27
5	MoS ₂ -Based Optoelectronic Gas Sensor with Sub-parts-per-billion Limit of NO ₂ Gas Detection. ACS Nano, 2019, 13, 3196-3205.	14.6	349
6	Effect of Substitution on the Hysteretic Phase Transition in a Bistable Phenalenyl-Based Neutral Radical Molecular Conductor. Chemistry - A European Journal, 2019, 25, 4166-4174.	3.3	2
7	Phenalenyl based neutral radical as a novel electrochromic material modulating visible to short-wave infrared light. RSC Advances, 2018, 8, 42068-42072.	3.6	3
8	Confined Lithium-Sulfur Reactions in Narrow-Diameter Carbon Nanotubes Reveal Enhanced Electrochemical Reactivity. ACS Nano, 2018, 12, 9775-9784.	14.6	61
9	Effect of constructive rehybridization on transverse conductivity of aligned single-walled carbon nanotube films. Materials Today, 2018, 21, 937-943.	14.2	10
10	High Modulation Speed, Depth, and Coloration Efficiency of Carbon Nanotube Thin Film Electrochromic Device Achieved by Counter Electrode Impedance Matching. Advanced Materials Interfaces, 2018, 5, 1800861.	3.7	19
11	Visible-Blind UV Photodetector Based on Single-Walled Carbon Nanotube Thin Film/ZnO Vertical Heterostructures. ACS Applied Materials & Interfaces, 2017, 9, 37094-37104.	8.0	67
12	Unexpected Competition between Antiferromagnetic and Ferromagnetic States in Hf ₂ MnRu ₅ B ₂ : Predicted and Realized. Inorganic Chemistry, 2017, 56, 12674-12677.	4.0	10
13	Fast Electrochromic Device Based on Single-Walled Carbon Nanotube Thin Films. Nano Letters, 2016, 16, 5386-5393.	9.1	77
14	Giant Raman Response to the Encapsulation of Sulfur in Narrow Diameter Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2016, 138, 40-43.	13.7	43
15	Application of Hybrid Fillers for Improving the Through-Plane Heat Transport in Graphite Nanoplatelet-Based Thermal Interface Layers. Scientific Reports, 2015, 5, 13108.	3.3	20
16	Networks of Semiconducting SWNTs: Contribution of Midgap Electronic States to the Electrical Transport. Accounts of Chemical Research, 2015, 48, 2270-2279.	15.6	37
17	Band Structure Engineering by Substitutional Doping in Solid-State Solutions of [5-Me-PLY(O,O)] ₂ B ₂ (I ⁺)Be ₂ Radical Crystals. Journal of the American Chemical Society, 2015, 137, 10000-10008.	13.7	16
18	Ionic Liquid Gating of Suspended MoS ₂ Field Effect Transistor Devices. Nano Letters, 2015, 15, 5284-5288.	9.1	71

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19	Effect of Lanthanide Metal Complexation on the Properties and Electronic Structure of Single-Walled Carbon Nanotube Films. ACS Applied Materials & Interfaces, 2015, 7, 28013-28018.	8.0	5
20	Enhanced Electrical Conductivity in a Substitutionally Doped Spiro-bis(phenalenyl)boron Radical Molecular Solid. Journal of the American Chemical Society, 2014, 136, 14738-14741.	13.7	30
21	Effect of Atomic Interconnects on Percolation in Single-Walled Carbon Nanotube Thin Film Networks. Nano Letters, 2014, 14, 3930-3937.	9.1	42
22	Effect of Covalent Chemistry on the Electronic Structure and Properties of Carbon Nanotubes and Graphene. Accounts of Chemical Research, 2013, 46, 65-76.	15.6	161
23	Charge-compensated, semiconducting single-walled carbon nanotube thin film as an electrically configurable optical medium. Nature Photonics, 2013, 7, 459-465.	31.4	37
24	Anisotropic Thermal and Electrical Properties of Thin Thermal Interface Layers of Graphite Nanoplatelet-Based Composites. Scientific Reports, 2013, 3, .	3.3	135
25	Effect of first row transition metals on the conductivity of semiconducting single-walled carbon nanotube networks. Applied Physics Letters, 2012, 100, .	3.3	28
26	Sulfur and selenium substituted spiro-biphenalenyl-boron neutral radicals. Journal of Materials Chemistry, 2012, 22, 8245.	6.7	17
27	Synthesis, Structure and Solid State Properties of Cyclohexanemethylamine Substituted Phenalenyl Based Molecular Conductor. Crystals, 2012, 2, 446-465.	2.2	4
28	Solidâ€‘State Bisâ€‘Hexahaptoâ€‘metal complexation of singleâ€‘walled carbon nanotubes. Journal of Physical Organic Chemistry, 2012, 25, 607-610.	1.9	26
29	Synthesis, structure and solid state properties of benzannulated phenalenyl based neutral radical conductor. Journal of Physical Organic Chemistry, 2012, 25, 566-573.	1.9	11
30	Nonlocal spin transport in single-walled carbon nanotube networks. Physical Review B, 2012, 85, .	3.2	16
31	Hexahaptoâ€‘Metal Complexes of Singleâ€‘Walled Carbon Nanotubes. Macromolecular Chemistry and Physics, 2012, 213, 1001-1019.	2.2	35
32	High Energy Density Supercapacitor Based on a Hybrid Carbon Nanotubeâ€‘Reduced Graphite Oxide Architecture. Advanced Energy Materials, 2012, 2, 438-444.	19.5	182
33	Enhanced photosensitivity of electro-oxidized epitaxial graphene. Applied Physics Letters, 2011, 98, .	3.3	21
34	Enhanced Electromodulation of Infrared Transmittance in Semitransparent Films of Large Diameter Semiconducting Single-Walled Carbon Nanotubes. Nano Letters, 2010, 10, 937-942.	9.1	26
35	Hysteretic Spin and Charge Delocalization in a Phenalenyl-Based Molecular Conductor. Journal of the American Chemical Society, 2010, 132, 17258-17264.	13.7	64
36	Chemical approach to the realization of electronic devices in epitaxial graphene. Physica Status Solidi - Rapid Research Letters, 2009, 3, 184-186.	2.4	39

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37	Single-Walled Carbon Nanotube Thin Film Emitterâ€”Detector Integrated Optoelectronic Device. Nano Letters, 2008, 8, 2224-2228.	9.1	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.	9.1	100
40	Bolometric Infrared Photoresponse of Suspended Single-Walled Carbon Nanotube Films. Science, 2006, 312, 413-416.	12.6	446
41	ZnO growth on Si with low-temperature ZnO buffer layers by ECR-assisted MBE. Journal of Crystal Growth, 2006, 286, 61-65.	1.5	57
42	Effect of single-walled carbon nanotube purity on the thermal conductivity of carbon nanotube-based composites. Applied Physics Letters, 2006, 89, 133102.	3.3	146
43	Comparison of Analytical Techniques for Purity Evaluation of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 3439-3448.	13.7	309
44	Electronic Properties of Single-Walled Carbon Nanotube Networks. Journal of the American Chemical Society, 2005, 127, 5990-5995.	13.7	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.	13.7	120
46	Nitric Acid Purification of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 13838-13842.	2.6	472
47	Structureâ€”property trends in π -stacked dithiazolo-dithiazolyl conductors. Chemical Communications, 2002, , 2562-2563.	4.1	37
48	A 1,2,3,5-dithiadiazolyl dimeric radical cation. Preparation and solid state characterization of 1,3-[(S2N2C)C6H4(CN2S2)]2[Cl]3. CrystEngComm, 2002, 4, 205.	2.6	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.	13.7	103