

Vladimir L Kuznetsov

List of Publications by Year in descending order

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44
papers

2,572
citations

393982

19
h-index

264894

42
g-index

45
all docs

45
docs citations

45
times ranked

4063
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen and fuel cells: Towards a sustainable energy future. <i>Energy Policy</i> , 2008, 36, 4356-4362.	4.2	871
2	Hydrogen nexus in a sustainable energy future. <i>Energy and Environmental Science</i> , 2008, 1, 79.	15.6	269
3	Preparation and thermoelectric properties of A8IB16IIIB30IV clathrate compounds. <i>Journal of Applied Physics</i> , 2000, 87, 7871-7875.	1.1	250
4	Organotin Dithiocarbamates: Single-Source Precursors for Tin Sulfide Thin Films by Aerosol-Assisted Chemical Vapor Deposition (AACVD). <i>Chemistry of Materials</i> , 2013, 25, 266-276.	3.2	129
5	Effect of partial void filling on the transport properties of $\text{Nd}_x\text{Co}_4\text{Sb}_{12}$ skutterudites. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 5035-5048.	0.7	124
6	Energy Storage via Carbon-Neutral Fuels Made From CO_2 , Water, and Renewable Energy. <i>Proceedings of the IEEE</i> , 2012, 100, 440-460.	16.4	116
7	Thermoelectric properties and crystal structure of ternary compounds in the $\text{Ge}(\text{Sn},\text{Pb})\text{Te}$ Bi_2Te_3 systems. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 1269-1274.	1.9	104
8	Electrical and thermal transport properties of intermediate-valence YbAl_3 . <i>Journal Physics D: Applied Physics</i> , 2002, 35, 2183-2186.	1.3	73
9	Dopant-induced bandgap shift in Al-doped ZnO thin films prepared by spray pyrolysis. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	54
10	Solid solution formation in the Zn_4Sb_3 Cd_4Sb_3 system. <i>Journal of Alloys and Compounds</i> , 2004, 372, 103-106.	2.8	44
11	Methanol-to-hydrocarbons conversion over $\text{MoO}_3/\text{H-ZSM-5}$ catalysts prepared via lower temperature calcination: a route to tailor the distribution and evolution of promoter Mo species, and their corresponding catalytic properties. <i>Chemical Science</i> , 2015, 6, 5152-5163.	3.7	41
12	Highly conducting and optically transparent Si-doped ZnO thin films prepared by spray pyrolysis. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6960.	2.7	39
13	Microwave treatment in oil refining. <i>Applied Petrochemical Research</i> , 2012, 2, 37-44.	1.3	38
14	Electrical transport properties of SnBi_4Te_7 and PbBi_4Te_7 with different deviations from stoichiometry. <i>Journal Physics D: Applied Physics</i> , 2001, 34, 700-703.	1.3	35
15	Sir Humphry Davy: Boundless Chemist, Physicist, Poet and Man of Action. <i>ChemPhysChem</i> , 2008, 9, 59-66.	1.0	35
16	Effect of nonstoichiometry on the thermoelectric properties of GeBi_4Te_7 . <i>Journal of Applied Physics</i> , 1999, 85, 3207-3210.	1.1	33
17	UV-induced improvement in ZnO thin film conductivity: a new in situ approach. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9643-9652.	2.7	25
18	Characterization of polyethylene synthesized by zirconium single site catalysts. <i>Applied Petrochemical Research</i> , 2014, 4, 79-84.	1.3	21

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19	Citric acid-assisted synthesis of γ -alumina-supported high loading CoMo sulfide catalysts for the hydrodesulfurization (HDS) and hydrodenitrogenation (HDN) reactions. Applied Petrochemical Research, 2015, 5, 181-197.	1.3	21
20	Multitemperature synchrotron powder diffraction and thermoelectric properties of the skutterudite La _{0.1} Co ₄ Sb ₁₂ . Journal of Applied Physics, 2010, 107, .	1.1	20
21	Electronic transport in highly conducting Si-doped ZnO thin films prepared by pulsed laser deposition. Applied Physics Letters, 2015, 107, .	1.5	20
22	Catalytic dehydrogenation of propane by carbon dioxide: a medium-temperature thermochemical process for carbon dioxide utilisation. Faraday Discussions, 2015, 183, 161-176.	1.6	20
23	High temperature electrical transport properties of the EuFe ₄ Sb ₁₂ and YbFe ₄ Sb ₁₂ filled skutterudites. Journal of Physics Condensed Matter, 2000, 12, 7915-7921.	0.7	19
24	Homogeneity range of β -phase Zn ₄ Sb ₃ . Journal of Alloys and Compounds, 2007, 432, 116-121.	2.8	19
25	Structural, optical and electrical properties of In ₄ Sn ₃ O ₁₂ films prepared by pulsed laser deposition. Materials Chemistry and Physics, 2010, 123, 152-159.	2.0	19
26	Electronic conduction in amorphous and polycrystalline zinc-indium oxide films. Applied Physics Letters, 2010, 97, 262117.	1.5	17
27	The Transition to the Metallic State in Polycrystalline n -type Doped ZnO Thin Films. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1054-1062.	0.6	17
28	Superconductivity in transition metals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140476.	1.6	16
29	Electronic structure of ternary Cd _x Zn _{1-x} O (0 ≤ x ≤ 0.075) alloys. Applied Physics Letters, 2012, 100, 2		
30	High alcohol synthesis (HAS) from syngas over supported molybdenum carbide catalysts. Applied Petrochemical Research, 2013, 3, 71-77.	1.3	11
31	Low temperature sputter-deposited ZnO films with enhanced Hall mobility using excimer laser post-processing. Journal Physics D: Applied Physics, 2017, 50, 485306.	1.3	9
32	Hydrogen bonds between methanol and the light liquid olefins 1-pentene and 1-hexene: from application to fundamental science. Chemical Communications, 2017, 53, 4026-4029.	2.2	8
33	Peltier effect in normal metal-insulator-heavy fermion metal junctions. Applied Physics Letters, 2003, 82, 2272-2274.	1.5	7
34	The effect of lanthanum addition on the catalytic activity of γ -alumina supported bimetallic Co-Mo carbides for dry methane reforming. Applied Petrochemical Research, 2014, 4, 145-156.	1.3	7
35	Increasing the Solubility Limit for Tetrahedral Aluminium in ZnO:Al Nanorods by Variation in Synthesis Parameters. Journal of Nanomaterials, 2015, 2015, 1-8.	1.5	7
36	Contrasting the grain boundary-affected performance of zinc and indium oxide transparent conductors. Journal of Physics Condensed Matter, 2016, 28, 224003.	0.7	5

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37	Metals and non-metals in the periodic table. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200213.	1.6	4
38	The Indirect and Direct Conversion of CO ₂ into Higher Carbon Fuels. , 2015, , 161-182.		3
39	Origins of conductivity improvement in fluoride-enhanced silicon doping of ZnO films. Chemical Communications, 2015, 51, 9280-9283.	2.2	3
40	Electrical and optical properties of transparent conducting In _{4+x} Sn ₃ As ₂ Sb _x O ₁₂ thin films. Journal of Applied Physics, 2011, 110, 033702.	1.1	2
41	Peltier heat measurements at a junction between materials exhibiting Fermi gas and Fermi liquid behaviour. Journal Physics D: Applied Physics, 2003, 36, 2750-2755.	1.3	1
42	Highly Conductive In ₄ Sn ₃ O ₁₂ Films Prepared by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2008, 1102, 1.	0.1	1
43	Hydrogen: An End-State Solution for Transportation?. , 2012, , 143-163.		1
44	Preface for the special issue of the 3rd KACST-Oxford Petrochemical Forum. Applied Petrochemical Research, 2014, 4, 1-2.	1.3	0