

Vladimir L Kuznetsov

List of Publications by Year in descending order

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44
papers

2,572
citations

361413

20
h-index

265206

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. Energy Policy, 2008, 36, 4356-4362.	8.8	871
2	Hydrogen nexus in a sustainable energy future. Energy and Environmental Science, 2008, 1, 79.	30.8	269
3	Preparation and thermoelectric properties of A8IIIB16IIIB30IV clathrate compounds. Journal of Applied Physics, 2000, 87, 7871-7875.	2.5	250
4	Organotin Dithiocarbamates: Single-Source Precursors for Tin Sulfide Thin Films by Aerosol-Assisted Chemical Vapor Deposition (AACVD). Chemistry of Materials, 2013, 25, 266-276.	6.7	129
5	Effect of partial void filling on the transport properties of $\text{Nd}_x\text{Co}_4\text{Sb}_{12}$ skutterudites. Journal of Physics Condensed Matter, 2003, 15, 5035-5048.	1.8	124
6	Energy Storage via Carbon-Neutral Fuels Made From CO_2 , Water, and Renewable Energy. Proceedings of the IEEE, 2012, 100, 440-460.	21.3	116
7	Thermoelectric properties and crystal structure of ternary compounds in the $\text{Ge}(\text{Sn,Pb})\text{Te}_{1-x}\text{Bi}_x\text{Te}_3$ systems. Journal of Physics and Chemistry of Solids, 2000, 61, 1269-1274.	4.0	104
8	Electrical and thermal transport properties of intermediate-valence YbAl_3 . Journal Physics D: Applied Physics, 2002, 35, 2183-2186.	2.8	73
9	Dopant-induced bandgap shift in Al-doped ZnO thin films prepared by spray pyrolysis. Journal of Applied Physics, 2012, 112, .	2.5	54
10	Solid solution formation in the $\text{Zn}_4\text{Sb}_3\text{-Cd}_4\text{Sb}_3$ system. Journal of Alloys and Compounds, 2004, 372, 103-106.	5.5	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. Chemical Science, 2015, 6, 5152-5163.	7.4	41
12	Highly conducting and optically transparent Si-doped ZnO thin films prepared by spray pyrolysis. Journal of Materials Chemistry C, 2013, 1, 6960.	5.5	39
13	Microwave treatment in oil refining. Applied Petrochemical Research, 2012, 2, 37-44.	1.3	38
14	Electrical transport properties of SnBi_4Te_7 and PbBi_4Te_7 with different deviations from stoichiometry. Journal Physics D: Applied Physics, 2001, 34, 700-703.	2.8	35
15	Sir Humphry Davy: Boundless Chemist, Physicist, Poet and Man of Action. ChemPhysChem, 2008, 9, 59-66.	2.1	35
16	Effect of nonstoichiometry on the thermoelectric properties of GeBi_4Te_7 . Journal of Applied Physics, 1999, 85, 3207-3210.	2.5	33
17	UV-induced improvement in ZnO thin film conductivity: a new in situ approach. Journal of Materials Chemistry C, 2014, 2, 9643-9652.	5.5	25
18	Characterization of polyethylene synthesized by zirconium single site catalysts. Applied Petrochemical Research, 2014, 4, 79-84.	1.3	21

#	ARTICLE	IF	CITATIONS
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 $\text{La}_{0.1}\text{Co}_4\text{Sb}_{12}$. Journal of Applied Physics, 2010, 107, .	2.5	20
21	Electronic transport in highly conducting Si-doped ZnO thin films prepared by pulsed laser deposition. Applied Physics Letters, 2015, 107, .	3.3	20
22	Catalytic dehydrogenation of propane by carbon dioxide: a medium-temperature thermochemical process for carbon dioxide utilisation. Faraday Discussions, 2015, 183, 161-176.	3.2	20
23	High temperature electrical transport properties of the $\text{EuFe}_4\text{Sb}_{12}$ and $\text{YbFe}_4\text{Sb}_{12}$ filled skutterudites. Journal of Physics Condensed Matter, 2000, 12, 7915-7921.	1.8	19
24	Homogeneity range of γ -phase Zn_4Sb_3 . Journal of Alloys and Compounds, 2007, 432, 116-121.	5.5	19
25	Structural, optical and electrical properties of $\text{In}_4\text{Sn}_3\text{O}_{12}$ films prepared by pulsed laser deposition. Materials Chemistry and Physics, 2010, 123, 152-159.	4.0	19
26	Electronic conduction in amorphous and polycrystalline zinc-indium oxide films. Applied Physics Letters, 2010, 97, 262117.	3.3	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.	1.2	17
28	Superconductivity in transition metals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140476.	3.4	16
29	Electronic structure of ternary $\text{Cd}_x\text{Zn}_{1-x}\text{O}$ ($0 \leq x \leq 0.075$) alloys. Applied Physics Letters, 2012, 100, 12	3.1	12
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.	2.8	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.	4.1	8
33	Peltier effect in normal metal-insulator-heavy fermion metal junctions. Applied Physics Letters, 2003, 82, 2272-2274.	3.3	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.	2.7	7
36	Contrasting the grain boundary-affected performance of zinc and indium oxide transparent conductors. Journal of Physics Condensed Matter, 2016, 28, 224003.	1.8	5

#	ARTICLE	IF	CITATIONS
37	Metals and non-metals in the periodic table. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20200213.	3.4	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.	4.1	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.	2.5	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.	2.8	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