

# Vladimir L Kuznetsov

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44  
papers

2,081  
citations

17  
h-index

45  
g-index

45  
ext. papers

2,313  
ext. citations

4.6  
avg, IF

4.54  
L-index

#	Paper	IF	Citations
44	Metals and non-metals in the periodic table. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2020</b> , 378, 20200213	3	2
43	Hydrogen bonds between methanol and the light liquid olefins 1-pentene and 1-hexene: from application to fundamental science. <i>Chemical Communications</i> , <b>2017</b> , 53, 4026-4029	5.8	4
42	Low temperature sputter-deposited ZnO films with enhanced Hall mobility using excimer laser post-processing. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 485306	3	7
41	Contrasting the grain boundary-affected performance of zinc and indium oxide transparent conductors. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 224003	1.8	4
40	Methanol-to-hydrocarbons conversion over MoO/H-ZSM-5 catalysts prepared lower temperature calcination: a route to tailor the distribution and evolution of promoter Mo species, and their corresponding catalytic properties. <i>Chemical Science</i> , <b>2015</b> , 6, 5152-5163	9.4	31
39	Citric acid-assisted synthesis of Alumina-supported high loading CoMo sulfide catalysts for the hydrodesulfurization (HDS) and hydrodenitrogenation (HDN) reactions. <i>Applied Petrochemical Research</i> , <b>2015</b> , 5, 181-197	1.9	15
38	Origins of conductivity improvement in fluoride-enhanced silicon doping of ZnO films. <i>Chemical Communications</i> , <b>2015</b> , 51, 9280-3	5.8	3
37	Catalytic dehydrogenation of propane by carbon dioxide: a medium-temperature thermochemical process for carbon dioxide utilisation. <i>Faraday Discussions</i> , <b>2015</b> , 183, 161-76	3.6	16
36	Electronic transport in highly conducting Si-doped ZnO thin films prepared by pulsed laser deposition. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 232103	3.4	16
35	Increasing the Solubility Limit for Tetrahedral Aluminium in ZnO:Al Nanorods by Variation in Synthesis Parameters. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-8	3.2	4
34	The Indirect and Direct Conversion of CO <sub>2</sub> into Higher Carbon Fuels <b>2015</b> , 161-182		2
33	Superconductivity in transition metals. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2015</b> , 373,	3	13
32	The Transition to the Metallic State in Polycrystalline n-type Doped ZnO Thin Films. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2014</b> , 640, 1054-1062	1.3	16
31	UV-induced improvement in ZnO thin film conductivity: a new in situ approach. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 9643-9652	7.1	22
30	Characterization of polyethylene synthesized by zirconium single site catalysts. <i>Applied Petrochemical Research</i> , <b>2014</b> , 4, 79-84	1.9	8
29	The effect of lanthanum addition on the catalytic activity of Alumina supported bimetallic CoMo carbides for dry methane reforming. <i>Applied Petrochemical Research</i> , <b>2014</b> , 4, 145-156	1.9	7
28	Preface for the special issue of the 3rd KACST-Oxford Petrochemical Forum. <i>Applied Petrochemical Research</i> , <b>2014</b> , 4, 1-2	1.9	

27	High alcohol synthesis (HAS) from syngas over supported molybdenum carbide catalysts. <i>Applied Petrochemical Research</i> , <b>2013</b> , 3, 71-77	1.9	10
26	Organotin Dithiocarbamates: Single-Source Precursors for Tin Sulfide Thin Films by Aerosol-Assisted Chemical Vapor Deposition (AACVD). <i>Chemistry of Materials</i> , <b>2013</b> , 25, 266-276	9.6	115
25	Highly conducting and optically transparent Si-doped ZnO thin films prepared by spray pyrolysis. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 6960	7.1	37
24	Energy Storage via Carbon-Neutral Fuels Made From CO $_2$ , Water, and Renewable Energy. <i>Proceedings of the IEEE</i> , <b>2012</b> , 100, 440-460	14.3	84
23	Microwave treatment in oil refining. <i>Applied Petrochemical Research</i> , <b>2012</b> , 2, 37-44	1.9	30
22	Dopant-induced bandgap shift in Al-doped ZnO thin films prepared by spray pyrolysis. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 083708	2.5	45
21	Electronic structure of ternary $Cd_xZn_{1-x}O$ ( $0 \leq x \leq 0.075$ ) alloys. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 072106	3.4	10
20	Hydrogen: An End-State Solution for Transportation? <b>2012</b> , 143-163		1
19	Electrical and optical properties of transparent conducting $In_{4+x}Sn_{3-2x}Sb_xO_{12}$ thin films. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 033702	2.5	2
18	Multitemperature synchrotron powder diffraction and thermoelectric properties of the skutterudite $La_{0.1}Co_4Sb_{12}$ . <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 113507	2.5	17
17	Electronic conduction in amorphous and polycrystalline zinc-indium oxide films. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 262117	3.4	17
16	Structural, optical and electrical properties of $In_4Sn_3O_{12}$ films prepared by pulsed laser deposition. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 123, 152-159	4.4	16
15	Hydrogen nexus in a sustainable energy future. <i>Energy and Environmental Science</i> , <b>2008</b> , 1, 79	35.4	200
14	Highly Conductive $In_4Sn_3O_{12}$ Films Prepared by Pulsed Laser Deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1102, 1		1
13	Hydrogen and fuel cells: Towards a sustainable energy future. <i>Energy Policy</i> , <b>2008</b> , 36, 4356-4362	7.2	662
12	Sir Humphry Davy: boundless chemist, physicist, poet and man of action. <i>ChemPhysChem</i> , <b>2008</b> , 9, 59-66	3.2	29
11	Homogeneity range of e-phase $Zn_4Sb_3$ . <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 432, 116-121	5.7	16
10	Solid solution formation in the $Zn_4Sb_3$ - $In_4Sb_3$ system. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 372, 103-106	5.7	39

9	Peltier heat measurements at a junction between materials exhibiting Fermi gas and Fermi liquid behaviour. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, 2750-2755	3	1
8	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> , <b>2003</b> , 15, 5035-5048	1.8	114
7	Peltier effect in normal metal-insulator-heavy fermion metal junctions. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2272-2274	3.4	7
6	Electrical and thermal transport properties of intermediate-valence $\text{YbAl}_3$ . <i>Journal Physics D: Applied Physics</i> , <b>2002</b> , 35, 2183-2186	3	60
5	Electrical transport properties of $\text{SnBi}_4\text{Te}_7$ and $\text{PbBi}_4\text{Te}_7$ with different deviations from stoichiometry. <i>Journal Physics D: Applied Physics</i> , <b>2001</b> , 34, 700-703	3	28
4	Thermoelectric properties and crystal structure of ternary compounds in the $\text{Ge}(\text{Sn,Pb})\text{TeBi}_2\text{Te}_3$ systems. <i>Journal of Physics and Chemistry of Solids</i> , <b>2000</b> , 61, 1269-1274	3.9	90
3	Preparation and thermoelectric properties of $\text{A}_8\text{IIB}_{16}\text{IIIB}_{30}\text{IV}$ clathrate compounds. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 7871-7875	2.5	234
2	High temperature electrical transport properties of the $\text{EuFe}_4\text{Sb}_{12}$ and $\text{YbFe}_4\text{Sb}_{12}$ filled skutterudites. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 7915-7921	1.8	16
1	Effect of nonstoichiometry on the thermoelectric properties of $\text{GeBi}_4\text{Te}_7$ . <i>Journal of Applied Physics</i> , <b>1999</b> , 85, 3207-3210	2.5	29