Young Soo Lim

List of Publications by Year
in descending order

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47	1,145	471509 17	395702 33
papers	citations	h-index	g-index

47	47	47	1695
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unoxidized Graphene/Alumina Nanocomposite: Fracture- and Wear-Resistance Effects of Graphene on Alumina Matrix. Scientific Reports, 2014, 4, 5176.	3.3	167
2	High-temperature charge transport and thermoelectric properties of a degenerately Al-doped ZnO nanocomposite. Journal of Materials Chemistry, 2012, 22, 14633.	6.7	91
3	Hollow porous Cu particles from silica-encapsulated Cu₂O nanoparticle aggregates effectively catalyze 4-nitrophenol reduction. Nanoscale, 2017, 9, 3873-3880.	5.6	73
4	Density of state effective mass and related charge transport properties in K-doped BiCuOSe. Applied Physics Letters, 2013, 103, .	3.3	69
5	Structurally Nanocrystalline-Electrically Single Crystalline ZnO-Reduced Graphene Oxide Composites. Nano Letters, 2014, 14, 5104-5109.	9.1	64
6	Ultralow Lattice Thermal Conductivity and Significantly Enhanced Near-Room-Temperature Thermoelectric Figure of Merit in Î±-Cu₂Se through Suppressed Cu Vacancy Formation by Overstoichiometric Cu Addition. Chemistry of Materials, 2018, 30, 3276-3284.	6.7	58
7	Gigantic Phonon-Scattering Cross Section To Enhance Thermoelectric Performance in Bulk Crystals. ACS Nano, 2019, 13, 8347-8355.	14.6	54
8	Enhanced thermoelectric performance of reduced graphene oxide incorporated bismuth-antimony-telluride by lattice thermal conductivity reduction. Journal of Alloys and Compounds, 2017, 718, 342-348.	5.5	49
9	Point defect-assisted doping mechanism and related thermoelectric transport properties in Pb-doped BiCuOTe. Journal of Materials Chemistry A, 2014, 2, 19759-19764.	10.3	40
10	Nanograined thermoelectric Bi2Te2.7Se0.3 with ultralow phonon transport prepared from chemically exfoliated nanoplatelets. Journal of Materials Chemistry A, 2013, 1, 12791.	10.3	39
11	Enhanced thermoelectric properties and their controllability in p-type (BiSb)2Te3 compounds through simultaneous adjustment of charge and thermal transports by Cu incorporation. Journal of Alloys and Compounds, 2016, 687, 320-325.	5.5	35
12	A gigantically increased ratio of electrical to thermal conductivity and synergistically enhanced thermoelectric properties in interface-controlled TiO2â€“RGO nanocomposites. Nanoscale, 2017, 9, 7830-7838.	5.6	34
13	Effects of Cu addition on band gap energy, density of state effective mass and charge transport properties in Bi₂Te₃ composites. RSC Advances, 2014, 4, 43811-43814.	3.6	30
14	Seebeck Coefficients of Layered BiCuSeO Phases: Analysis of Their Hole-Density Dependence and Quantum Confinement Effect. Chemistry of Materials, 2017, 29, 2348-2354.	6.7	27
15	Control of the shell structure of ZnOâ€“ZnS core-shell structure. Journal of Nanoparticle Research, 2011, 13, 5825-5831.	1.9	21
16	Preparation and Thermoelectric Properties of Doped Bi2Te3-Bi2Se3 Solid Solutions. Journal of Electronic Materials, 2014, 43, 1650-1655.	2.2	21
17	Effects of Cu incorporation as an acceptor on the thermoelectric transport properties of Cu Bi2Te2.7Se0.3 compounds. Journal of Alloys and Compounds, 2017, 696, 213-219.	5.5	18
18	Effects of Cl-Doping on Thermoelectric Transport Properties of Cu2Se Prepared by Spark Plasma Sintering. Journal of Electronic Materials, 2019, 48, 1958-1964.	2.2	18

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19	Phonon-glass electron-crystals in ZnO-multiwalled carbon nanotube nanocomposites. Nanoscale, 2017, 9, 12941-12948.	5.6	17
20	Investigation for Thermoelectric Properties of the MoS₂ Monolayerâ€“Graphene Heterostructure: Density Functional Theory Calculations and Electrical Transport Measurements. ACS Omega, 2021, 6, 278-283.	3.5	16
21	Colligative thermoelectric transport properties in n-type filled CoSb3 determined by guest electrons in a host lattice. Journal of Applied Physics, 2016, 119, 115104.	2.5	14
22	Composition-dependent charge transport and temperature-dependent density of state effective mass interpreted by temperature-normalized Pisarenko plot in Bi_{2â^'x}Sb_xTe₃ compounds. APL Materials, 2016, 4, 104812.	5.1	14
23	Thermoelectric Properties of Spark Plasma-Sintered In4Se3-In4Te3. Journal of Electronic Materials, 2011, 40, 1024-1028.	2.2	13
24	Significantly enhanced chemical stability in interface-controlled Cu2+Se-reduced graphene oxide composites and related thermoelectric performances. Journal of the European Ceramic Society, 2021, 41, 459-465.	5.7	13
25	Sonochemically activated solid-state synthesis of BaTiO3 powders. Journal of the European Ceramic Society, 2021, 41, 4826-4834.	5.7	13
26	CaO buffer layer for the growth of ZnO thin film. Solid State Communications, 2010, 150, 428-430.	1.9	12
27	Synthesis of n -type Bi 2 Te 1-x Se x compounds through oxide reduction process and related thermoelectric properties. Journal of the European Ceramic Society, 2017, 37, 3361-3366.	5.7	12
28	Improved thermal stability of ZnO transparent conducting films with a ZnO overlayer. Thin Solid Films, 2011, 519, 6840-6843.	1.8	11
29	Comparison of the electronic and thermoelectric properties of three layered phases Bi2Te3, PbBi2Te4 and PbBi4Te7: LEGO thermoelectrics. AIP Advances, 2018, 8, .	1.3	11
30	Thermoelectric Transport Properties of Interface-Controlled p-type Bismuth Antimony Telluride Composites by Reduced Graphene Oxide. Electronic Materials Letters, 2019, 15, 605-612.	2.2	11
31	Condenson state and its effects on thermoelectric properties in In₄Se₃. Journal Physics D: Applied Physics, 2013, 46, 275304.	2.8	10
32	Enhanced Charge Transport in ZnO Nanocomposite Through Interface Control Using Multiwall Carbon Nanotubes. Journal of the American Ceramic Society, 2016, 99, 2077-2082.	3.8	10
33	Effects of K-Doping on Thermoelectric Properties of Bi1â^'x K x CuOTe. Journal of Electronic Materials, 2017, 46, 2717-2723.	2.2	7
34	Thermoelectric transport properties of tetradymite-type Pb1-Sn Bi2Te4 compounds. Journal of Alloys and Compounds, 2017, 690, 966-970.	5.5	7
35	Bader net charge analysis on doping effects of Sb in SnSe2 and related charge transport properties. Journal of Applied Physics, 2020, 127, .	2.5	7
36	Effects of doping on the positional uniformity of the thermoelectric properties of n-type Bi2Te2.7Se0.3 polycrystalline bulks. Journal of the Korean Physical Society, 2016, 68, 17-21.	0.7	6

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37	Thermoelectric Transport Properties of Interface-Controlled <i>n</i>-type Bismuth Telluride Selenide Composites by Reduced Graphene Oxide. Journal of Korean Institute of Metals and Materials, 2019, 57, 603-608.	1.0	5
38	Synthesis of N-type Bi2Te2.7Se0.3 Compounds through Oxide-Reduction Process and Related Thermoelectric Transport Properties. Journal of Korean Institute of Metals and Materials, 2022, 60, 463-470.	1.0	5
39	Anomalous in-plane lattice thermal conductivity in an atomically thin two-dimensional Î±-GeTe layer. Physical Chemistry Chemical Physics, 2020, 22, 12273-12280.	2.8	4
40	Sonochemical activation in aqueous medium for solid-state synthesis of BaTiO3 powders. Ultrasonics Sonochemistry, 2022, 82, 105874.	8.2	4
41	Sintering behaviour and microstructures of nanostructured ZnOâ€“ZnS coreâ€“shell powder by spark plasma sintering. Philosophical Magazine, 2013, 93, 4221-4231.	1.6	3
42	Improved damp heat stability of Ga-Doped ZnO thin film by pretreatment of the polyethylene terephthalate substrate. Electronic Materials Letters, 2013, 9, 599-603.	2.2	3
43	Oxide Reduction Process for the Synthesis of p-Type BixSb2â^'xTe3 Compounds and Related Thermoelectric Transport Properties. Electronic Materials Letters, 2019, 15, 49-55.	2.2	3
44	Tailored electrostrain and related properties in (1Ââ^'ÂÂx)BaTiO₃â€“xSrSnO₃ Pbâ€free electroceramics. Journal of the American Ceramic Society, 2022, 105, 5751-5763.	3.8	3
45	Effect of Zn-Doping on the Phase Transition Behavior and Thermoelectric Transport Properties of Cu2Se. Journal of Korean Institute of Metals and Materials, 2020, 58, 466-471.	1.0	2
46	Effect of Interface Control Using Multiwalled Carbon Nanotubes on the Thermoelectric Properties of TiO2 Nanocomposites. Journal of Korean Institute of Metals and Materials, 2018, 56, 538-543.	1.0	1
47	Significantly enhanced charge transport in polysilicon by alleviating grain boundary scattering through interface control using reduced graphene oxide. Journal of the Korean Ceramic Society, 2022, 59, 263-269.	2.3	0