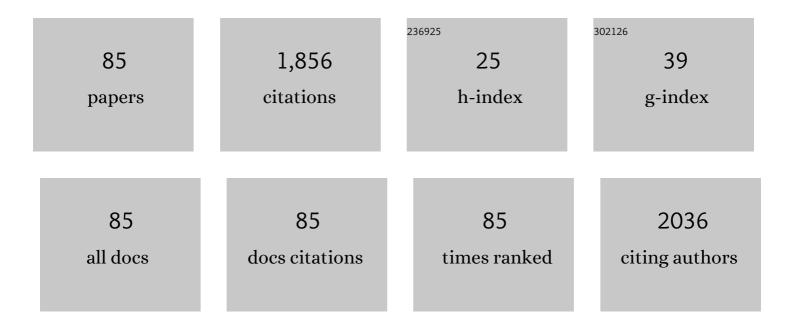
Soonil Lee

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Piezoelectric performance of the binary K1/2Bi1/2TiO3–LiTaO3 relaxor-ferroelectric ceramics. Materials Chemistry and Physics, 2022, 279, 125764.	4.0	5
2	Lead-free high-temperature dielectrics with wide temperature stability range induced from BiFeO3-BaTiO3-based system. Journal of the European Ceramic Society, 2022, 42, 4040-4044.	5.7	6
3	Low temperature sintering and dielectric properties of LaAlO ₃ –BaSnO ₃ -based microwave dielectrics. Advances in Applied Ceramics, 2022, 121, 101-108.	1.1	2
4	High and temperature-insensitive piezoelectric performance in the lead-free Sm-doped BiFeO3–BaTiO3 ceramics with high Curie temperature. Ceramics International, 2022, 48, 26608-26617.	4.8	11
5	Identification and comparison of peculiarities in physical properties of multiferroic morphotrophic phase boundary sintered BiFeO3-xPbTiO3 nano-ceramics. Journal of Physics and Chemistry of Solids, 2021, 150, 109868.	4.0	3
6	Role of Bi chemical pressure on electrical properties of BiFeO3–BaTiO3–based ceramics. Solid State Sciences, 2021, 114, 106562.	3.2	29
7	Effect of heat-treatment mechanism on structural and electromechanical properties of eco-friendly (Bi, Ba)(Fe, Ti)O3 piezoceramics. Journal of Materials Science, 2021, 56, 13198-13214.	3.7	19
8	Structural evolution and electromechanical properties of SrTiO3-modified BiO.5NaO.5TiO3–BaTiO3 ceramics prepared by sol-gel and hydrothermal methods. Materials Chemistry and Physics, 2021, 266, 124529.	4.0	16
9	Large electromechanical strain response in BiFeO3–BaTiO3-based ceramics at elevated temperature. Journal of Physics and Chemistry of Solids, 2021, 156, 110133.	4.0	12
10	Enhanced thermoelectric properties of Hf-free half-Heusler compounds prepared via highly fast process. Journal of Alloys and Compounds, 2021, 886, 161293.	5.5	6
11	Combined effect of donor doping and RGO (reduced graphene oxide) coating in La/Nb-doped SrTiO3 thermoelectrics. Solid State Sciences, 2021, 122, 106774.	3.2	2
12	Less temperature-dependent high dielectric and energy-storage properties of eco-friendly BiFeO3–BaTiO3-based ceramics. Journal of Alloys and Compounds, 2020, 818, 152878.	5.5	42
13	Enhanced Electromechanical Properties of 0.65Bi _{1.05} FeO ₃ –0.35BaTiO ₃ Ceramics through Optimizing Sintering Conditions. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900970.	1.8	10
14	Effect of sintering temperature on the electrical properties of pristine BF-35BT piezoelectric ceramics. Journal of the Korean Ceramic Society, 2020, 57, 290-295.	2.3	16
15	Correlations between shape/size/oxidation of iron particle and electromagnetic properties of Fe-silicone rubber composites. Solid State Sciences, 2020, 105, 106246.	3.2	3
16	Piezoelectric and ferroelectric properties of lead-free Ga-modified 0.65BiFeO ₃ –0.35BaTiO ₃ ceramics by water quenching process. Ferroelectrics, 2019, 541, 54-60.	0.6	11
17	Grain Boundary Interfaces Controlled by Reduced Graphene Oxide in Nonstoichiometric SrTiO3-δ Thermoelectrics. Scientific Reports, 2019, 9, 8624.	3.3	50
18	Enhancing piezoelectric coefficient with high Curie temperature in BiAlO3-modified BiFeO3–BaTiO3 lead-free ceramics. Solid State Sciences, 2019, 98, 106040.	3.2	22

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19	Electrical response of mixed phase (1-x)BiFeO3-xPbTiO3 solid solution: Role of tetragonal phase and tetragonality. Journal of Alloys and Compounds, 2019, 786, 98-108.	5.5	12
20	X-site aliovalent substitution decoupled charge and phonon transports in XYZ half-Heusler thermoelectrics. Acta Materialia, 2019, 166, 650-657.	7.9	10
21	Thermally-stable high dielectric properties of (1–x)(0.65Bi1.05FeO3–0.35BaTiO3)–xBiGaO3 piezoceramics. Journal of the European Ceramic Society, 2019, 39, 2304-2309.	5.7	29
22	Chemically synthesized Cu2Te incorporated Bi-Sb-Te p-type thermoelectric materials for low temperature energy harvesting. Scripta Materialia, 2019, 165, 78-83.	5.2	19
23	Effects of cooling rate on the electrical properties of Pb-free BF-BT ceramics. Ferroelectrics, 2019, 553, 76-82.	0.6	7
24	Effects of B-Site Donor Modification on the Crystal Structure and the Electrical Properties of Lead-Free 0.65BiFeO3-0.35BaTiO3 Ceramics. Journal of the Korean Physical Society, 2019, 75, 811-816.	0.7	10
25	Oxygen vacancy revived phonon-glass electron-crystal in SrTiO3. Journal of the European Ceramic Society, 2019, 39, 358-365.	5.7	59
26	Synthesis and thermoelectric properties of Ti-substituted (Hf0.5Zr0.5)1-xTixNiSn0.998Sb0.002 Half-Heusler compounds. Journal of Alloys and Compounds, 2019, 773, 1141-1145.	5.5	13
27	Coral-like iron particles synthesized by morphology controllable reduction process. Ceramics International, 2018, 44, 5359-5364.	4.8	3
28	Charge Transport and Thermoelectric Properties of (Nd1â^'z Yb z) y Fe4â^'x Co x Sb12 Skutterudites. Journal of Electronic Materials, 2018, 47, 3143-3151.	2.2	5
29	Electromechanical properties of ternary BiFeO3â^0.35BaTiO3–BiGaO3 piezoelectric ceramics. Journal of Electroceramics, 2018, 41, 93-98.	2.0	18
30	High thermoelectric performance of melt-spun CuxBi0.5Sb1.5Te3 by synergetic effect of carrier tuning and phonon engineering. Acta Materialia, 2018, 158, 289-296.	7.9	37
31	Enhanced Piezoelectric Properties of (1â^'x)[0.675BiFeO3â^'0.325BaTiO3]â^'xLiTaO3 Ternary System by Air-Quenching. Korean Journal of Materials Research, 2018, 28, 489-494.	0.2	7
32	Thermoelectric Properties of Bi2Te3â^'y Se y :1 m Prepared by Mechanical Alloying and Hot Pressing. Journal of Electronic Materials, 2017, 46, 2623-2628.	2.2	8
33	A gigantically increased ratio of electrical to thermal conductivity and synergistically enhanced thermoelectric properties in interface-controlled TiO2–RGO nanocomposites. Nanoscale, 2017, 9, 7830-7838.	5.6	34
34	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
35	The Synthesis and Thermoelectric Properties of p-Type Li1â^'x NbO2-Based Compounds. Journal of Electronic Materials, 2017, 46, 1740-1746.	2.2	9
36	Localized double phonon scattering and DOS induced thermoelectric enhancement of degenerate nonstoichiometric Li _{1â~x} NbO ₂ compounds. RSC Advances, 2017, 7, 53255-53264.	3.6	10

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37	Synthesis and Thermoelectric Properties of Ce1â^'z Pr z Fe4â^'x Co x Sb12 Skutterudites. Journal of Electronic Materials, 2017, 46, 2634-2639.	2.2	8
38	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
39	Microstructure Analysis and Thermoelectric Properties of Melt-Spun Bi-Sb-Te Compounds. Crystals, 2017, 7, 180.	2.2	8
40	Nonstoichiometric Effects in the Leakage Current and Electrical Properties of Bismuth Ferrite Ceramics. Journal of the Korean Ceramic Society, 2017, 54, 323-330.	2.3	18
41	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
42	Composition-dependent charge transport and temperature-dependent density of state effective mass interpreted by temperature-normalized Pisarenko plot in Bi _{2â^²<i>x</i>} Sb _{<i>x</i>} Te ₃ compounds. APL Materials, 2016, 4, 104812.	5.1	14
43	Charge transport and thermoelectric properties of double-filled Nd1–z Yb z Fe4–x Co x Sb12 skutterudites. Journal of the Korean Physical Society, 2016, 68, 875-882.	0.7	5
44	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
45	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
46	Metallic-like to nonmetallic transitions in a variety of heavily oxygen deficient ferroelectrics. Applied Physics Letters, 2015, 107, .	3.3	8
47	Thermoelectric and transport properties of mechanically-alloyed Bi2Te3-y Se y solid solutions. Journal of the Korean Physical Society, 2015, 67, 1809-1813.	0.7	5
48	Thermal Stability of La0.9Fe3CoSb12 Skutterudite. Journal of Electronic Materials, 2015, 44, 1858-1863.	2.2	10
49	Power-Generation Characteristics After Vibration and Thermal Stresses of Thermoelectric Unicouples with CoSb3/Ti/Mo(Cu) Interfaces. Journal of Electronic Materials, 2015, 44, 2124-2131.	2.2	26
50	Anisotropy of the thermoelectric figure of merit (ZT) in textured Ca3Co4O9 ceramics prepared by using a spark plasma sintering process. Journal of the Korean Physical Society, 2015, 66, 794-799.	0.7	21
51	Piezoelectric and ferroelectric properties of lead-free LiNbO3-modified 0.97(Bi0.5Na0.5TiO3)-0.03BaZrO3 ceramics. Journal of the Korean Physical Society, 2015, 66, 661-666.	0.7	11
52	Effect of donor doping on the ferroelectric and the piezoelectric properties of lead-free 0.97(Bi0.5Na0.5Ti1â^'x Nb x)O3-0.03BaZrO3 ceramics. Journal of the Korean Physical Society, 2015, 67, 1240-1245.	0.7	13
53	Thermoelectric Properties of n-Type Half-Heusler Compounds Synthesized by the Induction Melting Method. Transactions on Electrical and Electronic Materials, 2015, 16, 342-345.	1.9	4
54	Synthesis and thermoelectric properties of Ce z Fe4â^'x Co x Sb12 skutterudites. Journal of the Korean Physical Society, 2014, 64, 84-88.	0.7	9

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55	Thermoelectric properties of La-filled CoSb3 skutterudites. Journal of the Korean Physical Society, 2014, 64, 1004-1008.	0.7	15
56	ThE SYnthesis of R z Fe4â´`x Co x Sb12 (R: Yb, La, Ce) skutterudites and their thermoelectric properties. Journal of the Korean Physical Society, 2014, 64, 863-867.	0.7	7
57	Determination of electronic and ionic conductivity in mixed ionic conductors: HiTEC and in-situ impedance spectroscopy analysis of isovalent and aliovalent doped BaTiO3. Solid State Ionics, 2013, 249-250, 86-92.	2.7	8
58	An Optimization of Composition Ratio among Triple-Filled Atoms inIn0.3-x-yBaxCeyCo4Sb12System. Journal of Nanomaterials, 2013, 2013, 1-7.	2.7	2
59	Electrical Properties of BaTiO3-Based Multilayer Ceramic Capacitors Sintered with Plasma-Treated Glass Powder. Japanese Journal of Applied Physics, 2013, 52, 10MB23.	1.5	5
60	Mn-doped 0.15BiInO3-0.85PbTiO3 piezoelectric films deposited by pulsed laser deposition. Applied Physics Letters, 2012, 100, 212905.	3.3	11
61	Ferroelectric-thermoelectricity and Mott transition of ferroelectric oxides with high electronic conductivity. Journal of the European Ceramic Society, 2012, 32, 3971-3988.	5.7	95
62	Kinetics of Oxygen Diffusion into Multilayer Ceramic Capacitors During the Reâ€oxidation Process and its Implications on Dielectric Properties. Journal of the American Ceramic Society, 2011, 94, 3934-3940.	3.8	34
63	Local structure of Ba(Ti,Zr)O <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mrow </mml:msub></mml:mrow></mml:math> perovskite-like solid solutions and its relation to the band-gap behavior. Physical Review B. 2011. 83.	3.2	62
64	Property-processing relations in developing thermoelectric ceramics: Na1â^'x Co2O4. Journal of Materials Science, 2011, 46, 2064-2070.	3.7	7
65	Thermoelectric power factor enhancement of textured ferroelectric Sr <i>_x</i> Ba _{1–<i>x</i>} Nb ₂ O _{6–Î} ceramics. Journal of Materials Research, 2011, 26, 26-30.	2.6	48
66	A critical evaluation of reactive templated grain growth (RTGG) mechanisms in highly [001] textured Sr0.61Ba0.39Nb2O6 ferroelectric-thermoelectrics. Journal of Materials Research, 2011, 26, 3044-3050.	2.6	14
67	Influence of Nonstoichiometry on Extrinsic Electrical Conduction and Microwave Dielectric Loss of BaCo _{1/3} Nb _{2/3} O ₃ Ceramics. Journal of the American Ceramic Society, 2010, 93, 4087-4095.	3.8	44
68	Sr x Ba 1 â^' x Nb 2 O 6 â^' δ Ferroelectric-thermoelectrics: Crystal anisotropy, conduction mechanism, and power factor. Applied Physics Letters, 2010, 96, .	3.3	80
69	Band-gap nonlinearity in perovskite structured solid solutions. Journal of Applied Physics, 2010, 107, .	2.5	45
70	Intrinsic ferroelectric properties of the nonstoichiometric perovskite oxide Ba1â^'xTi1â^'yO3â^'xâ^'2y. Journal of Applied Physics, 2009, 105, .	2.5	29
71	Factors Limiting Equilibrium in Fabricating a Simple Ferroelectric Oxide: BaTiO ₃ . Journal of the American Ceramic Society, 2009, 92, 222-228.	3.8	12
72	Resistance Degradation in Y(Cr,Mn)O ₃ –Y ₂ O ₃ Composite NTC Ceramics in Hostile Environments. Journal of the American Ceramic Society, 2009, 92, 2634-2641.	3.8	33

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73	Thermopower in highly reducedn-type ferroelectric and related perovskite oxides and the role of heterogeneous nonstoichiometry. Physical Review B, 2009, 79, .	3.2	68
74	Comprehensive Linkage of Defect and Phase Equilibria through Ferroelectric Transition Behavior in BaTiO ₃ â€Based Dielectrics: Part 1. Defect Energies Under Ambient Air Conditions. Journal of the American Ceramic Society, 2008, 91, 1748-1752.	3.8	25
75	Comprehensive Linkage of Defect and Phase Equilibria Through Ferroelectric Transition Behavior in BaTiO3-Based Dielectrics: Part 2. Defect Modeling Under Low Oxygen Partial Pressure Conditions. Journal of the American Ceramic Society, 2008, 91, 1753-1761.	3.8	28
76	A modified Vegard's law for multisite occupancy of Ca in BaTiO3–CaTiO3 solid solutions. Applied Physics Letters, 2008, 92, 111904.	3.3	42
77	Phenomenological analysis for intrinsic properties of nonstoichiometric BaTiO3. , 2008, , .		0
78	Crystal and defect chemistry influences on band gap trends in alkaline earth perovskites. Applied Physics Letters, 2008, 92, .	3.3	47
79	Influence of nonstoichiometry on ferroelectric phase transition in BaTiO3. Journal of Applied Physics, 2007, 101, 054119.	2.5	77
80	Modified Phase Diagram for the Barium Oxide?Titanium Dioxide System for the Ferroelectric Barium Titanate. Journal of the American Ceramic Society, 2007, 90, 2589-2594.	3.8	108
81	Effect of local oxygen activity on Ni–BaTiO3 interfacial reactions. Acta Materialia, 2006, 54, 3513-3523.	7.9	63
82	Electrical Conductivity Revisited in Excess BaO into BaTiO ₃ . Journal of the Korean Ceramic Society, 2005, 42, 308-313.	2.3	3
83	Milling precipitation method of powder synthesis for fabrication of dense submicron grained pzt and PZT derived ceramics. Ferroelectrics, 2001, 263, 321-326.	0.6	2
84	Correlations among defect type, photoconductivity and photoreactivity of doped TiO2. Korean Journal of Chemical Engineering, 2001, 18, 873-878.	2.7	4
85	Challenges in Improving Performance of Oxide Thermoelectrics Using Defect Engineering. , 0, , .		1