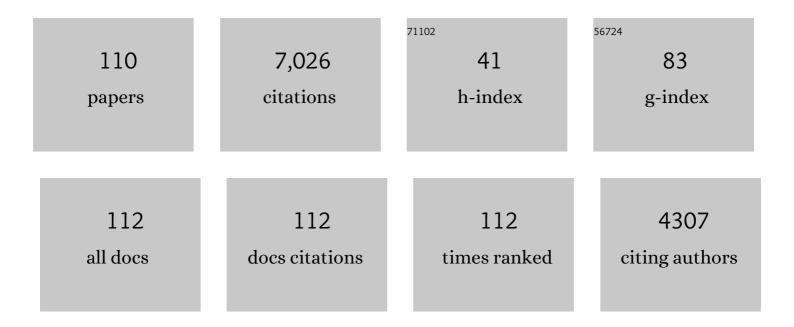
## S Joseph Poon

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Multi-Principal-Element Approach to High-Performance Thermoelectric Materials. , 2022, , 491-499.		1
2	Rare-earth-free ferrimagnetic Mn4N sub-20Ânm thin films as potential high-temperature spintronic material. AIP Advances, 2021, 11, 015334.	1.3	11
3	Skyrmionics—Computing and memory technologies based on topological excitations in magnets. Journal of Applied Physics, 2021, 130, .	2.5	42
4	Tunable magnetic skyrmions in ferrimagnetic Mn4N. Applied Physics Letters, 2021, 119, .	3.3	18
5	Amorphous Ferrimagnets: an Ideal Host for Ultra-Small Skyrmions. Journal of Superconductivity and Novel Magnetism, 2020, 33, 269-273.	1.8	2
6	Tuning interfacial Dzyaloshinskii-Moriya interactions in thin amorphous ferrimagnetic alloys. Scientific Reports, 2020, 10, 7447.	3.3	30
7	Robust Formation of Ultrasmall Room-Temperature Neél Skyrmions in Amorphous Ferrimagnets from Atomistic Simulations. Scientific Reports, 2019, 9, 9964.	3.3	22
8	High Entropy Alloys Mined From Binary Phase Diagrams. Scientific Reports, 2019, 9, 15501.	3.3	48
9	Enhanced Figure of Merit in Bismuth-Antimony Fine-Grained Alloys at Cryogenic Temperatures. Scientific Reports, 2019, 9, 14892.	3.3	17
10	Half Heusler compounds: promising materials for mid-to-high temperature thermoelectric conversion. Journal Physics D: Applied Physics, 2019, 52, 493001.	2.8	48
11	Critical evaluation of p-type doping effects in Bi-Sb alloys. AIP Advances, 2019, 9, 075321.	1.3	0
12	Thickness dependence of ferrimagnetic compensation in amorphous rare-earth transition-metal thin films. Applied Physics Letters, 2018, 113, .	3.3	11
13	Elastic mismatch induced reduction of the thermal conductivity of silicon with aluminum nano-inclusions. Applied Physics Letters, 2018, 112, .	3.3	1
14	Semi-metals as potential thermoelectric materials. Scientific Reports, 2018, 8, 9876.	3.3	71
15	Processing and Properties of Ni-Based Bulk Metallic Glass via Spark Plasma Sintering of Pulverized Amorphous Ribbons. MRS Advances, 2017, 2, 3815-3820.	0.9	4
16	Ballistic transport of long wavelength phonons and thermal conductivity accumulation in nanograined silicon-germanium alloys. Applied Physics Letters, 2017, 111, .	3.3	14
17	High thermoelectric figure of merit by resonant dopant in half-Heusler alloys. AIP Advances, 2017, 7, .	1.3	41
18	Exchange bias and bistable magneto-resistance states in amorphous TbFeCo thin films. Applied Physics Letters, 2016, 108, .	3.3	12

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19	Micromagnetic simulation of ferrimagnetic TbFeCo films with exchange coupled nanophases. Journal of Magnetism and Magnetic Materials, 2016, 417, 197-202.	2.3	11
20	Half-Heusler Alloys for Efficient Thermoelectric Power Conversion. Journal of Electronic Materials, 2016, 45, 5554-5560.	2.2	37
21	Radiation effects on the magnetism and the spin dependent transport in magnetic materials and nanostructures for spintronic applications. Journal of Materials Research, 2015, 30, 1430-1439.	2.6	13
22	Critical analysis of lattice thermal conductivity of half-Heusler alloys using variations of Callaway model. Journal of Applied Physics, 2015, 117, .	2.5	36
23	Weibull modulus of hardness, bend strength, and tensile strength of Niâ^'Taâ^'Coâ^'X metallic glass ribbons. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 634, 176-182.	5.6	12
24	Uncovering high thermoelectric figure of merit in (Hf,Zr)NiSn half-Heusler alloys. Applied Physics Letters, 2015, 107, .	3.3	55
25	The Effects of Sc Alloying in Y56Al24Ni10Co10 Glasses on the Local Atomic Structure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1990-1993.	2.2	1
26	Tunable perpendicular magnetic anisotropy in GdFeCo amorphous films. Journal of Magnetism and Magnetic Materials, 2013, 339, 51-55.	2.3	51
27	Thermal conductivity of core-shell nanocomposites for enhancing thermoelectric performance. Applied Physics Letters, 2013, 102, .	3.3	13
28	Strain-induced enhancement of coercivity in amorphous TbFeCo films. Journal of Applied Physics, 2013, 113, .	2.5	29
29	Structural and magnetic properties of Cr-diluted CoFeB. Journal of Applied Physics, 2013, 114, 153902.	2.5	4
30	Contributions of electron and phonon transport to the thermal conductivity of GdFeCo and TbFeCo amorphous rare-earth transition-metal alloys. Journal of Applied Physics, 2012, 111, .	2.5	11
31	Magnetic properties and thermal stability of (Fe,Co)-Mo-B-P-Si metallic glasses. Journal of Applied Physics, 2012, 111, .	2.5	27
32	Perpendicular magnetization of Co20Fe50Ge30 films induced by MgO interface. Applied Physics Letters, 2012, 101, .	3.3	12
33	Effective medium approach to thermal conductivity: applying to core-shell nanocomposites. Emerging Materials Research, 2012, 1, 286-291.	0.7	2
34	Recent Advances in Nanostructured Thermoelectric Half-Heusler Compounds. Nanomaterials, 2012, 2, 379-412.	4.1	287
35	Half-Heusler phases and nanocomposites as emerging high-ZT thermoelectric materials. Journal of Materials Research, 2011, 26, 2795-2802.	2.6	136
36	Introduction of resonant states and enhancement of thermoelectric properties in half-Heusler alloys. Physical Review B, 2011, 83, .	3.2	50

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37	Enhanced Thermoelectric Figure of Merit of p-Type Half-Heuslers. Nano Letters, 2011, 11, 556-560.	9.1	362
38	Nanostructure model of thermal conductivity for high thermoelectric performance. Journal of Applied Physics, 2011, 110, .	2.5	17
39	Fluctuations of the Local Atomic Environment with Chemical Alloying in Fe Bulk Metallic Glasses. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1481-1485.	2.2	0
40	Elastic properties of Ca-based metallic glasses predicted by first-principles simulations. Physical Review B, 2011, 84, .	3.2	21
41	Conductivity of icosahedral AlPdRe. Physical Review B, 2011, 84, .	3.2	8
42	Superconductivity in Transition Metal Doped MoB4. Journal of Superconductivity and Novel Magnetism, 2010, 23, 417-422.	1.8	18
43	Influence of erbium on the electronic structure of Fe(65â~'x)Mo14C15B6Erx (x=0,1,2) bulk metallic glasses. Journal of Applied Physics, 2009, 105, 023518.	2.5	9
44	Ductility improvement of amorphous steels: Roles of shear modulus and electronic structure. Acta Materialia, 2008, 56, 88-94.	7.9	188
45	Electronic structure of transition metal-doped XNiSn and XCoSb (X = Hf,Zr) phases in the vicinity of the band gap. Journal of Physics Condensed Matter, 2008, 20, 255220.	1.8	23
46	Thermoelectric properties of p-type half-Heusler alloys Zr1â^'xTixCoSnySb1â^'y (0.0 <x<0.5;) etq<="" td="" tj=""><td>2q0,0,0 rgl 2.5</td><td>3T /Qverlock 2 43</td></x<0.5;)>	2q0,0,0 rgl 2.5	3T /Qverlock 2 43
47	Tough Fe-based bulk metallic glasses. Applied Physics Letters, 2008, 92, .	3.3	113
48	(Zr,Hf)Co(Sb,Sn) half-Heusler phases as high-temperature (>700°C)â€`p-type thermoelectric materials. Applied Physics Letters, 2008, 93, .	3.3	189
49	Poisson's Ratio and Intrinsic Plasticity of Metallic Glasses. Applied Physics Letters, 2008, 92, .	3.3	61
50	Electronic structure of Fe-based amorphous alloys studied using electron-energy-loss spectroscopy. Physical Review B, 2008, 77, .	3.2	15
51	Mechanical properties, glass transition temperature, and bond enthalpy trends of high metalloid Fe-based bulk metallic glasses. Applied Physics Letters, 2008, 92, .	3.3	46
52	Local organization and atomic clustering in multicomponent amorphous steels. Physical Review B, 2008, 78, .	3.2	33
53	Formation of Bulk Metallic Glasses and Their Composites. MRS Bulletin, 2007, 32, 624-628.	3.5	100
54	The role of Y/lanthanides on the glass forming ability of amorphous steel. Applied Physics Letters, 2007, 91, 141910.	3.3	21

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55	Photoemission study of ternary to penternary Fe-based metallic glasses: Chemical analysis of surface and bulk. Journal of Applied Physics, 2007, 102, 033501.	2.5	8
56	Fatigue behavior of an Fe48Cr15Mo14Er2C15B6 amorphous steel. Journal of Materials Research, 2007, 22, 544-550.	2.6	30
57	Comment on "Extrinsic origin of the insulating behavior of polygrain icosahedral Al-Pd-Re quasicrystals― Physical Review B, 2007, 76, .	3.2	6
58	Glass transition in metallic glasses: A microscopic model of topological fluctuations in the bonding network. Physical Review B, 2007, 76, .	3.2	152
59	Mechanical properties of iron-based bulk metallic glasses. Journal of Materials Research, 2007, 22, 344-351.	2.6	166
60	Effects of carbon content on the mechanical properties of amorphous steel alloys. Scripta Materialia, 2007, 57, 289-292.	5.2	45
61	Thermoelectric Properties of Half-Heusler Bismuthides ZrCo1â^'x Ni x Bi (xÂ=Â0.0 to 0.1). Journal of Electronic Materials, 2007, 36, 732-735.	2.2	13
62	Recent Developments in Bulk Thermoelectric Materials. MRS Bulletin, 2006, 31, 199-205.	3.5	407
63	Effect of substitutions on the thermoelectric figure of merit of half-Heusler phases at 800 °C. Applied Physics Letters, 2006, 88, 042106.	3.3	223
64	Neutron Irradiation and Annealing Recovery in the AlPdRe Quasicrystal. AlP Conference Proceedings, 2006, , .	0.4	0
65	Recent results at the metal-insulator transition of icosahedral AlPdRe. Philosophical Magazine, 2006, 86, 655-661.	1.6	3
66	Critical Poisson's ratio for plasticity in Fe–Mo–C–B–Ln bulk amorphous steel. Applied Physics Letters, 2006, 88, 211905.	3.3	203
67	Modeling the atomic structure of amorphous steels using crystalline approximants. Physical Review B, 2005, 72, .	3.2	11
68	Ductile titanium-based glassy alloy ingots. Applied Physics Letters, 2005, 86, 091907.	3.3	169
69	Mg–Ca–Zn Bulk Metallic Glasses with High Strength and Significant Ductility. Journal of Materials Research, 2005, 20, 1935-1938.	2.6	132
70	Indentation fracture toughness of amorphous steel. Journal of Materials Research, 2005, 20, 783-786.	2.6	51
71	Enhanced bulk metallic glass formability by combining chemical compatibility and atomic size effects. Journal of Applied Physics, 2005, 97, 013512.	2.5	32
72	Critical exponents at the metal-insulator transition in AlPdRe quasicrystals. Physical Review B, 2005, 71, .	3.2	16

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73	On glass formability of Al–Gd–Ni (Fe). Scripta Materialia, 2004, 50, 1451-1455.	5.2	30
74	Fe–Mn–Cr–Mo–(Y,Ln)–C–B (Ln = Lanthanides) bulk metallic glasses as formable amorphous steel alloys. Journal of Materials Research, 2004, 19, 3046-3052.	2.6	97
75	CaAl-based bulk metallic glasses with high thermal stability. Applied Physics Letters, 2004, 84, 37-39.	3.3	108
76	Fe-based bulk metallic glasses with diameter thickness larger than one centimeter. Journal of Materials Research, 2004, 19, 1320-1323.	2.6	505
77	Metallic glass ingots based on yttrium. Applied Physics Letters, 2003, 83, 2575-2577.	3.3	197
78	Phase Transitions in Al87Ni7Nd6. Materials Research Society Symposia Proceedings, 2003, 806, 374.	0.1	0
79	Synthesis of iron-based bulk metallic glasses as nonferromagnetic amorphous steel alloys. Applied Physics Letters, 2003, 83, 1131-1133.	3.3	175
80	Monitoring an insulator-metal transition in icosahedral AlPdRe by neutron irradiation. Physical Review B, 2002, 66, .	3.2	13
81	Local Order in Amorphous Fe-alloys. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	Ο
82	Grain structure effects on the lattice thermal conductivity of Ti-based half-Heusler alloys. Applied Physics Letters, 2002, 81, 43-45.	3.3	133
83	Electrical transport properties of TiCoSb half-Heusler phases that exhibit high resistivity. Journal of Physics Condensed Matter, 2001, 13, 77-89.	1.8	109
84	Reductions in the Lattice Thermal Conductivity of Ball-milled and Shock compacted TiNiSn1â^'XSbX Half-Heusler alloys. Materials Research Society Symposia Proceedings, 2001, 691, 1.	0.1	3
85	Evidence for an insulating ground state in high-resistivity icosahedral AlPdRe from the magnetoresistance. Physical Review B, 2001, 63, .	3.2	26
86	Role of Atomic Size on Glass Formability and Thermal Stability of Al-Based Amorphous Alloys. Materials Transactions, JIM, 2000, 41, 1406-1409.	0.9	22
87	Effect of substitutional doping on the thermal conductivity of Ti-based Half-Heusler compounds. Materials Research Society Symposia Proceedings, 2000, 626, 521.	0.1	5
88	Thermoelectric properties of semimetallic (Zr, Hf)CoSb half-Heusler phases. Journal of Applied Physics, 2000, 88, 1952-1955.	2.5	175
89	Effect of Sb doping on the thermoelectric properties of Ti-based half-Heusler compounds, TiNiSn1â^'xSbx. Applied Physics Letters, 2000, 77, 2476-2478.	3.3	195
90	Correlation of amorphization effects in titanium solid solutions via mechanical milling and annealing. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 97-106.	0.6	2

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91	Bulk titanium-rich alloys containing nanoscale disordered regions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 1821-1824.	2.2	1
92	Thermoelectric Properties of the Half-Heusler Compound (Zr,Hf)(Ni,Pd)Sn. Materials Research Society Symposia Proceedings, 1998, 545, 403.	0.1	14
93	Metal-Insulator Transitionlike Behavior In Several Icosahedral Phases. Materials Research Society Symposia Proceedings, 1998, 553, 365.	0.1	4
94	Sharp Feature in the Pseudogap of Quasicrystals Detected by NMR. Physical Review Letters, 1997, 79, 1070-1073.	7.8	48
95	Formation of bulk metallic glasses in neodymium-based alloys. Philosophical Magazine Letters, 1994, 70, 371-377.	1.2	76
96	Optical Conductivity of Insulating Al-Based Alloys: Comparison of Quasiperiodic and Periodic Systems. Physical Review Letters, 1994, 73, 1865-1868.	7.8	86
97	Deformation-induced nanocrystal formation in shear bands of amorphous alloys. Nature, 1994, 367, 541-543.	27.8	488
98	Synchrotron X-ray studies of diffuse scattering in an Al–Cu–Co two-dimensional decagonal quasicrystal. Philosophical Magazine Letters, 1992, 66, 241-251.	1.2	9
99	Structures of shear planes, intersection areas and translation domains in the Al5CuLi3Frank-Kasper phase. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 64, 483-493.	0.6	9
100	Stability investigation of a decagonal Al—Cu—Co quasicrystal. Philosophical Magazine Letters, 1991, 63, 211-216.	1.2	17
101	The effect of temperature on stability of the Al—Cu—Co decagonal phase. Philosophical Magazine Letters, 1991, 64, 307-315.	1.2	18
102	Atomic structure of amorphous Al <sub>90</sub> Fe <sub>x</sub> Ce <sub><i>10â^'x</i></sub> . Journal of Materials Research, 1990, 5, 2807-2812.	2.6	134
103	On the structural nature of aluminium-based metallic glasses. Philosophical Magazine Letters, 1990, 61, 297-303.	1.2	41
104	Low-temperature specific heat of icosahedral and amorphous Pdâ^'Uâ^'Si alloys. Zeitschrift Für Physik B-Condensed Matter, 1988, 70, 31-35.	1.1	13
105	Mechanical properties of a new class of metallic glasses based on aluminum. Journal of Applied Physics, 1988, 64, 6863-6865.	2.5	90
106	Structural relationship between icosahedral and Frank-Kasper phases of Al-Li-Cu. Philosophical Magazine Letters, 1987, 56, 63-68.	1.2	33
107	High Temperature Superconductors in the La1+xBa2-xCu3Oy System. Materials Research Society Symposia Proceedings, 1987, 99, 101.	0.1	4
108	Sintering and Microstructure - Property Relations for YBa2Cu3Ox. Materials Research Society Symposia Proceedings, 1987, 99, 245.	0.1	6

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109	Quasicrystalline grain boundary precipitates in aluminium alloys through solidâ€solid transformations. Journal of Microscopy, 1987, 146, 323-335.	1.8	9
110	Comparison of quasicrystalline (T2) and crystalline (R) structures in AlCuLi using high-resolution X-ray diffraction. Philosophical Magazine Letters, 1987, 56, 259-264.	1.2	15