Xiaochao Zhang

List of Publications by Year
in descending order

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15 papers	524 citations	1039880 9 h-index	996849 15 g-index
15 all docs	15 docs citations	15 times ranked	612 citing authors

#	Article	IF	Citations
1	Advanced thermoelectrics governed by a single parabolic band: Mg₂Si_{0.3}Sn_{0.7}, a canonical example. Physical Chemistry Chemical Physics, 2014, 16, 6893-6897.	1.3	114
2	Ultra-fast synthesis and thermoelectric properties of Te doped skutterudites. Journal of Materials Chemistry A, 2014, 2, 17914-17918.	5.2	90
3	Low effective mass and carrier concentration optimization for high performance p-type Mg_{2(1â^'x)}Li_{2x}Si_{0.3}Sn_{0.7}solid solutions. Physical Chemistry Chemical Physics, 2014, 16, 23576-23583.	1.3	77
4	Thermoelectric Properties of Sb-Doped Mg2Si0.3Sn0.7. Journal of Electronic Materials, 2011, 40, 1062-1066.	1.0	58
5	Enhanced power factor of Mg 2 Si 0.3 Sn 0.7 synthesized by a non-equilibrium rapid solidification method. Scripta Materialia, 2015, 96, 1-4.	2.6	58
6	Phase Segregation and Superior Thermoelectric Properties of Mg₂Si_{1â€“x}Sb_x (0 â‰¤ x â‰¤ 0.025) Prepared by Ultrafast Self-Propagating High-Temperature Synthesis. ACS Applied Materials & Interfaces, 2016, 8, 3268-3276.	4.0	45
7	Enhancing the zT Value of Bi-Doped Mg₂Si_{0.6}Sn_{0.4} Materials through Reduction of Bipolar Thermal Conductivity. ACS Applied Materials & Interfaces, 2017, 9, 28635-28641.	4.0	26
8	Synergetic effect of Bi2WO6 micro-spheres and activated carbon mm-spheres for enhancing photoreduction activity of CO2 to CO. Materials Letters, 2020, 264, 127201.	1.3	17
9	Charge compensation weakening ionized impurity scattering and assessing the minority carrier contribution to the Seebeck coefficient in Pb-doped Mg₃Sb₂ compounds. Physical Chemistry Chemical Physics, 2020, 22, 7012-7020.	1.3	10
10	Isotropic Mg3Sb2 compound prepared by solid-state reaction and ball milling combined with spark plasma sintering. Journal of Materials Science, 2018, 53, 8039-8048.	1.7	9
11	Ultrafast and low-cost preparation of Mg2(Si0.3Sn0.7)1â^'ySby with superior thermoelectric performance by self-propagating high-temperature synthesis. Scripta Materialia, 2019, 162, 507-511.	2.6	8
12	Energy-Efficient Synthesis and Superior Thermoelectric Performance of Sb-doped Mg2Si0.3Sn0.7 Solid Solutions by Rapid Thermal Explosion. Materials Research Bulletin, 2020, 128, 110885.	2.7	6
13	Facile synthesis of nitrogen-rich porous carbon spheres assisted by NaNH2 as a bifunctional activator and nitrogen source for CO2 capture. Journal of Environmental Chemical Engineering, 2021, 9, 106605.	3.3	3
14	Fast and facile synthesis of Sb-doped Mg2Si0.5Sn0.5 solid solutions with decent thermoelectric performance. Materials Letters, 2019, 252, 47-51.	1.3	2
15	An engineering route to synthesize stable bulk nanocrystalline magnesium with an average grain size of 20Anm. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 843, 143134.	2.6	1