Xiaochao Zhang

List of Publications by Year in descending order

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		1040056	996975	
15	524	9	15	
papers	citations	h-index	g-index	
15	15	15	612	
all docs	docs citations	times ranked	citing authors	

#	Article	IF	CITATIONS
1	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.	5. 6	1
2	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.	6.7	3
3	Synergetic effect of Bi2WO6 micro-spheres and activated carbon mm-spheres for enhancing photoreduction activity of CO2 to CO. Materials Letters, 2020, 264, 127201.	2.6	17
4	Charge compensation weakening ionized impurity scattering and assessing the minority carrier contribution to the Seebeck coefficient in Pb-doped Mg ₃ 5b ₂ compounds. Physical Chemistry Chemical Physics, 2020, 22, 7012-7020.	2.8	10
5	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.	5.2	6
6	Fast and facile synthesis of Sb-doped Mg2Si0.5Sn0.5 solid solutions with decent thermoelectric performance. Materials Letters, 2019, 252, 47-51.	2.6	2
7	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.	5.2	8
8	Isotropic Mg3Sb2 compound prepared by solid-state reaction and ball milling combined with spark plasma sintering. Journal of Materials Science, 2018, 53, 8039-8048.	3.7	9
9	Enhancing the <i>zT</i> Value of Bi-Doped Mg ₂ Si _{0.6} Sn _{0.4} Materials through Reduction of Bipolar Thermal Conductivity. ACS Applied Materials & Diterfaces, 2017, 9, 28635-28641.	8.0	26
10	Phase Segregation and Superior Thermoelectric Properties of Mg ₂ Si _{1–<i>x</i>} Sb _{<i>x</i>} (0 ≤i>x ≙0.025) Prepared by Ultrafast Self-Propagating High-Temperature Synthesis. ACS Applied Materials & mp; Interfaces, 2016, 8, 3268-3276.	8.0	45
11	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.	5.2	58
12	Ultra-fast synthesis and thermoelectric properties of Te doped skutterudites. Journal of Materials Chemistry A, 2014, 2, 17914-17918.	10.3	90
13	Advanced thermoelectrics governed by a single parabolic band: Mg ₂ Si _{0.3} Sn _{0.7} , a canonical example. Physical Chemistry Chemical Physics, 2014, 16, 6893-6897.	2.8	114
14	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.	2.8	77
15	Thermoelectric Properties of Sb-Doped Mg2Si0.3Sn0.7. Journal of Electronic Materials, 2011, 40, 1062-1066.	2.2	58