

Xiaochao Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4788849/publications.pdf>

Version: 2024-02-01

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	An engineering route to synthesize stable bulk nanocrystalline magnesium with an average grain size of 20nm. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 843, 143134.	2.6	1
2	Facile synthesis of nitrogen-rich porous carbon spheres assisted by NaNH ₂ as a bifunctional activator and nitrogen source for CO ₂ capture. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106605.	3.3	3
3	Synergetic effect of Bi ₂ WO ₆ micro-spheres and activated carbon mm-spheres for enhancing photoreduction activity of CO ₂ to CO. <i>Materials Letters</i> , 2020, 264, 127201.	1.3	17
4	Charge compensation weakening ionized impurity scattering and assessing the minority carrier contribution to the Seebeck coefficient in Pb-doped Mg ₃ Sb ₂ compounds. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7012-7020.	1.3	10
5	Energy-Efficient Synthesis and Superior Thermoelectric Performance of Sb-doped Mg ₂ Si _{0.3} Sn _{0.7} Solid Solutions by Rapid Thermal Explosion. <i>Materials Research Bulletin</i> , 2020, 128, 110885.	2.7	6
6	Fast and facile synthesis of Sb-doped Mg ₂ Si _{0.5} Sn _{0.5} solid solutions with decent thermoelectric performance. <i>Materials Letters</i> , 2019, 252, 47-51.	1.3	2
7	Ultrafast and low-cost preparation of Mg ₂ (Si _{0.3} Sn _{0.7}) _{1-x} Sb _y with superior thermoelectric performance by self-propagating high-temperature synthesis. <i>Scripta Materialia</i> , 2019, 162, 507-511.	2.6	8
8	Isotropic Mg ₃ Sb ₂ compound prepared by solid-state reaction and ball milling combined with spark plasma sintering. <i>Journal of Materials Science</i> , 2018, 53, 8039-8048.	1.7	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. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28635-28641.	4.0	26
10	Phase Segregation and Superior Thermoelectric Properties of Mg ₂ Si _{1-x} Sb _x (0 ≤ <i>x</i> ≤ 0.025) Prepared by Ultrafast Self-Propagating High-Temperature Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3268-3276.	4.0	45
11	Enhanced power factor of Mg ₂ Si _{0.3} Sn _{0.7} synthesized by a non-equilibrium rapid solidification method. <i>Scripta Materialia</i> , 2015, 96, 1-4.	2.6	58
12	Ultra-fast synthesis and thermoelectric properties of Te doped skutterudites. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17914-17918.	5.2	90
13	Advanced thermoelectrics governed by a single parabolic band: Mg ₂ Si _{0.3} Sn _{0.7} , a canonical example. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6893-6897.	1.3	114
14	Low effective mass and carrier concentration optimization for high performance p-type Mg ₂ (1-x)Li _{2x} Si _{0.3} Sn _{0.7} solid solutions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23576-23583.	1.3	77
15	Thermoelectric Properties of Sb-Doped Mg ₂ Si _{0.3} Sn _{0.7} . <i>Journal of Electronic Materials</i> , 2011, 40, 1062-1066.	1.0	58