

Mingkai Fu

List of Publications by Year in descending order

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16
papers

231
citations

1040056

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996975

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195
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical formula input relied intelligent identification of an inorganic perovskite for solar thermochemical hydrogen production. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2097-2102.	6.0	4
2	Effectiveness of Zr and Hf incorporation into LaCoO_3 towards fast and thermodynamically favorable solar thermochemical CO production studied with density functional theory. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1515-1521.	4.9	5
3	Mechanism of CO production around oxygen vacancy of LaMnO_3 : an efficient and rapid evaluation of the doping effect on the kinetics and thermodynamic driving force of CO_2 -splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1709-1716.	10.3	19
4	Thermodynamic assessment of hydrogen production via solar thermochemical cycle based on MoO_2/Mo by methane reduction. <i>Frontiers in Energy</i> , 2020, 14, 71-80.	2.3	2
5	Solar thermochemical CO_2 splitting with doped perovskite $\text{LaCo}_{0.7}\text{Zr}_{0.3}\text{O}_3$: thermodynamic performance and solar-to-fuel efficiency. <i>RSC Advances</i> , 2020, 10, 35740-35752.	3.6	9
6	Mechanism of oxygen vacancy assisted water-splitting of LaMnO_3 : inorganic perovskite prediction for fast solar thermochemical H_2 production. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2381-2387.	6.0	6
7	A Theoretical Study on Laser Cooling Feasibility of Group IVA Hydrides XH ($X = \text{Si}, \text{Ge}, \text{Sn}, \text{and Pb}$): The Role of Electronic State Crossing. <i>Frontiers in Chemistry</i> , 2020, 8, 20.	3.6	12
8	Optimizing the molecular structure of 1,1,7,7-tetramethyl julolidine fused furan based chromophores by introducing a heterocycle ring to achieve high electro-optic activity. <i>New Journal of Chemistry</i> , 2019, 43, 15548-15554.	2.8	10
9	Synthesis of novel nonlinear optical chromophores with enhanced electro-optic activity by introducing suitable isolation groups into the donor and bridge. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8019-8028.	5.5	35
10	Thermodynamic assessment of solar-aided carbon dioxide conversion into fuels via Tin oxides. <i>Science China Technological Sciences</i> , 2018, 61, 1779-1787.	4.0	4
11	Dynamical importance of van der Waals saddle and excited potential surface in $\text{C}(1\text{D})+\text{D}_2$ complex-forming reaction. <i>Nature Communications</i> , 2017, 8, 14094.	12.8	40
12	A theoretical study on laser cooling of silicon monofluoride. <i>Chemical Physics</i> , 2017, 485-486, 29-34.	1.9	11
13	Laser cooling of CaBr molecules and production of ultracold Br atoms: A theoretical study including spin-orbit coupling. <i>Journal of Chemical Physics</i> , 2017, 146, 134309.	3.0	16
14	Laser cooling of copper monofluoride: a theoretical study including spin-orbit coupling. <i>RSC Advances</i> , 2016, 6, 100568-100576.	3.6	11
15	Extensive theoretical study on electronically excited states of calcium monochloride: Molecular laser cooling and production of ultracold chlorine atoms. <i>Journal of Chemical Physics</i> , 2016, 144, 184302.	3.0	27
16	Global analytical <i>ab initio</i> ground-state potential energy surface for the $\text{C}(1\text{D})+\text{H}_2$ reactive system. <i>Journal of Chemical Physics</i> , 2014, 140, 234301.	3.0	20