Mingkai Fu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5552798/publications.pdf

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16	231	1040056	996975
papers	citations	9	15
		h-index	g-index

16	16	16	195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamical importance of van der Waals saddle and excited potential surface in C(1D)+D2 complex-forming reaction. Nature Communications, 2017, 8, 14094.	12.8	40
2	Synthesis of novel nonlinear optical chromophores with enhanced electro-optic activity by introducing suitable isolation groups into the donor and bridge. Journal of Materials Chemistry C, 2019, 7, 8019-8028.	5.5	35
3	Extensive theoretical study on electronically excited states of calcium monochloride: Molecular laser cooling and production of ultracold chlorine atoms. Journal of Chemical Physics, 2016, 144, 184302.	3.0	27
4	Global analytical ab initio ground-state potential energy surface for the C(1D)+H2 reactive system. Journal of Chemical Physics, 2014, 140, 234301.	3.0	20
5	Mechanism of CO production around oxygen vacancy of LaMnO₃: an efficient and rapid evaluation of the doping effect on the kinetics and thermodynamic driving force of CO₂-splitting. Journal of Materials Chemistry A, 2020, 8, 1709-1716.	10.3	19
6	Laser cooling of CaBr molecules and production of ultracold Br atoms: A theoretical study including spinâ€“orbit coupling. Journal of Chemical Physics, 2017, 146, 134309.	3.0	16
7	A Theoretical Study on Laser Cooling Feasibility of Group IVA Hydrides XH (X = Si, Ge, Sn, and Pb): The Role of Electronic State Crossing. Frontiers in Chemistry, 2020, 8, 20.	3.6	12
8	Laser cooling of copper monofluoride: a theoretical study including spinâ€“orbit coupling. RSC Advances, 2016, 6, 100568-100576.	3.6	11
9	A theoretical study on laser cooling of silicon monofluoride. Chemical Physics, 2017, 485-486, 29-34.	1.9	11
10	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. New Journal of Chemistry, 2019, 43, 15548-15554.	2.8	10
11	Solar thermochemical CO₂ splitting with doped perovskite La_{0.7}Zr_{0.3}O₃: thermodynamic performance and solar-to-fuel efficiency. RSC Advances, 2020, 10, 35740-35752.	3.6	9
12	Mechanism of oxygen vacancy assisted water-splitting of LaMnO₃: inorganic perovskite prediction for fast solar thermochemical H₂ production. Inorganic Chemistry Frontiers, 2020, 7, 2381-2387.	6.0	6
13	Effectiveness of Zr and Hf incorporation into LaCoO₃ towards fast and thermodynamically favorable solar thermochemical CO production studied with density functional theory. Sustainable Energy and Fuels, 2020, 4, 1515-1521.	4.9	5
14	Thermodynamic assessment of solar-aided carbon dioxide conversion into fuels via Tin oxides. Science China Technological Sciences, 2018, 61, 1779-1787.	4.0	4
15	Chemical formula input relied intelligent identification of an inorganic perovskite for solar thermochemical hydrogen production. Inorganic Chemistry Frontiers, 2021, 8, 2097-2102.	6.0	4
16	Thermodynamic assessment of hydrogen production via solar thermochemical cycle based on MoO2/Mo by methane reduction. Frontiers in Energy, 2020, 14, 71-80.	2.3	2