

# Shalabh Gupta

## List of Publications by Year in descending order

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24  
papers

423  
citations

759233

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docs citations

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times ranked

596  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Solid-State Thermolysis of Ammonia Borane: A $^{15}\text{N}$ NMR Study Using Fast Magic-Angle Spinning and Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19548-19555.	3.1	56
2	Luminescence properties of mechanochemically synthesized lanthanide containing MIL-78 MOFs. <i>Dalton Transactions</i> , 2018, 47, 7594-7601.	3.3	53
3	Mechanochemical recovery of Co and Li from LCO cathode of lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153876.	5.5	43
4	Enhancement of $\beta$ -phase in PVDF films embedded with ferromagnetic $\text{Gd}_5\text{Si}_4$ nanoparticles for piezoelectric energy harvesting. <i>AIP Advances</i> , 2017, 7, .	1.3	42
5	Solvent-free mechanochemical synthesis and magnetic properties of rare-earth based metal-organic frameworks. <i>Journal of Alloys and Compounds</i> , 2017, 696, 118-122.	5.5	39
6	Solvent-free mechanochemical synthesis of alane, $\text{AlH}_3$ : effect of pressure on the reaction pathway. <i>Green Chemistry</i> , 2014, 16, 4378-4388.	9.0	27
7	Investigation of Room Temperature Ferromagnetic Nanoparticles of $\text{Gd}_5\text{Si}_4$ . <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	26
8	Dry mechanochemical synthesis of alane from $\text{LiH}$ and $\text{AlCl}_3$ . <i>Faraday Discussions</i> , 2014, 170, 137-153.	3.2	20
9	Ferromagnetic $\text{Gd}_5\text{Si}_4$ Nanoparticles as T2 Contrast Agents for Magnetic Resonance Imaging. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-4.	1.1	19
10	Mechanochemical synthesis, luminescent and magnetic properties of lanthanide benzene-1,4-dicarboxylate coordination polymers $(\text{Ln}_{0.5}\text{Gd}_{0.5})_2(1,4\text{-BDC})_3(\text{H}_2\text{O})_4$ ; Ln = Sm, Eu, Tb. <i>New Journal of Chemistry</i> , 2020, 44, 1054-1062.	2.8	17
11	Investigating phase transition temperatures of size separated gadolinium silicide magnetic nanoparticles. <i>AIP Advances</i> , 2018, 8, 056428.	1.3	15
12	Mechanochemical reactions and hydrogen storage capacities in $\text{MBH}_4\text{-Si}_2$ systems (M Li or Na). <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7381-7391.	7.1	13
13	Magnetocaloric Effect of Micro- and Nanoparticles of $\text{Gd}_5\text{Si}_4$ . <i>Jom</i> , 2019, 71, 3159-3163.	1.9	11
14	Differential effect of magnetic alignment on additive manufacturing of magnetocaloric particles. <i>AIP Advances</i> , 2020, 10, .	1.3	9
15	Mechanochemistry of the $\text{LiBH}_4\text{-AlCl}_3$ System: Structural Characterization of the Products by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1955-1962.	3.1	7
16	$\text{Gd}_5\text{Si}_4$ -PVDF nanocomposite films and their potential for triboelectric energy harvesting applications. <i>AIP Advances</i> , 2019, 9, .	1.3	7
17	Study of structural, transport and magneto-crystalline anisotropy in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ (0.30 $\leq x \leq$ 0.40) perovskite manganites. <i>AIP Advances</i> , 2021, 11, .	1.3	6
18	Towards Direct Synthesis of Alane: A Predicted Defect-Mediated Pathway Confirmed Experimentally. <i>ChemSusChem</i> , 2016, 9, 2358-2364.	6.8	5

#	ARTICLE	IF	CITATIONS
19	A benign synthesis of alane by the composition-controlled mechanochemical reaction of sodium hydride and aluminum chloride. <i>Journal of Materials Science</i> , 2017, 52, 11900-11910.	3.7	3
20	Structural, magneto transport and magnetic properties of Ruddlesdenâ€“Popper $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7$ (0.42â€“xâ€“0.52) layered manganites. <i>AIP Advances</i> , 2021, 11, .	1.3	2
21	Protein-assisted scalable mechanochemical exfoliation of few-layer biocompatible graphene nanosheets. <i>Royal Society Open Science</i> , 2021, 8, 200911.	2.4	2
22	Stability of magnetocaloric $\text{La}(\text{Fe}_x\text{Co}_y\text{Si}_{1-x-y})_3$ in water and air. <i>AIP Advances</i> , 2019, 9, 035239.	1.3	1
23	Room temperature ferromagnetic nanoparticles of $\text{Gd}_5\text{Si}_4$ . , 2015, , .		0
24	A New Complex Borohydride $\text{LiAl}(\text{BH}_4)_2\text{Cl}_2$ . <i>Inorganics</i> , 2021, 9, 35.	2.7	0