

Ranga P Dias

List of Publications by Year in descending order

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29
papers

1,574
citations

566801

15
h-index

500791

28
g-index

31
all docs

31
docs citations

31
times ranked

1564
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the Wigner-Huntington transition to metallic hydrogen. <i>Science</i> , 2017, 355, 715-718.	6.0	438
2	Synthesis of Yttrium Superhydride Superconductor with a Transition Temperature up to 262 K by Catalytic Hydrogenation at High Pressures. <i>Physical Review Letters</i> , 2021, 126, 117003.	2.9	165
3	The 2021 room-temperature superconductivity roadmap. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 183002.	0.7	79
4	“Stubborn” triaminotrinitrobenzene: Unusually high chemical stability of a molecular solid to 150 GPa. <i>Journal of Chemical Physics</i> , 2011, 135, 174507.	1.2	61
5	Hole-doped room-temperature superconductivity in H ₃ S _{1-x} Z (Z=C, Si). <i>Materials Today Physics</i> , 2020, 15, 100330.	2.9	53
6	Superconductivity in highly disordered dense carbon disulfide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11720-11724.	3.3	36
7	Crystal structures and dynamical properties of dense CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11110-11115.	3.3	28
8	Dense Carbon Monoxide to 160 GPa: Stepwise Polymerization to Two-Dimensional Layered Solid. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27548-27554.	1.5	22
9	New Phases and Dissociation-Recombination of Hydrogen Deuteride to 3.4 Mbar. <i>Physical Review Letters</i> , 2016, 116, 145501.	2.9	22
10	Metallic hydrogen. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 254003.	0.7	21
11	Insulator-metal transition of highly compressed carbon disulfide. <i>Physical Review B</i> , 2011, 84, .	1.1	20
12	Quantum phase transition in solid hydrogen at high pressure. <i>Physical Review B</i> , 2019, 100, .	1.1	19
13	Polyamorphism and Pressure-Induced Metallization at the Rigidity Percolation Threshold in Densified GeSe ₄ Glass. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5110-5121.	1.5	17
14	Structural transitions and metallization in dense GeS. <i>Physical Review B</i> , 2016, 93, .	1.1	15
15	Response to Comment on “Observation of the Wigner-Huntington transition to metallic hydrogen”. <i>Science</i> , 2017, 357, .	6.0	15
16	Response to Comment on “Observation of the Wigner-Huntington transition to metallic hydrogen”. <i>Science</i> , 2017, 357, .	6.0	15
17	X-ray diffraction and equation of state of the CaH ₂ room-temperature superconductor. <i>Journal of Chemical Physics</i> , 2021, 155, 114703.	1.2	13
18	Colossal Density-Driven Resistance Response in the Negative Charge Transfer Insulator MnS ₂ . <i>Physical Review Letters</i> , 2021, 127, 016401.	2.9	11

#	ARTICLE	IF	CITATIONS
19	Carbon content drives high temperature superconductivity in a carbonaceous sulfur hydride below 100 GPa. <i>Chemical Communications</i> , 2022, 58, 9064-9067.	2.2	7
20	Laser-Induced Cooperative Transition in Molecular Electronic Crystal. <i>Advanced Materials</i> , 2021, 33, e2103000.	11.1	6
21	Time-Resolved Synchrotron X-ray Diffraction on Pulse Laser Heated Iron in Diamond Anvil Cell. <i>Journal of Physics: Conference Series</i> , 2012, 377, 012108.	0.3	5
22	Phases of the hydrogen isotopes under pressure: metallic hydrogen. <i>Advances in Physics: X</i> , 2021, 6, .	1.5	5
23	Anomalous Conductivity in the Rutile Structure Driven by Local Disorder. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5351-5356.	2.1	4
24	Pressure-induced Transformations of Dense Carbonyl Sulfide to Singly Bonded Amorphous Metallic Solid. <i>Scientific Reports</i> , 2016, 6, 31594.	1.6	2
25	Metallic Hydrogen. <i>Journal of Low Temperature Physics</i> , 2017, 187, 4-19.	0.6	2
26	Dispersion interactions in proposed covalent superhydride superconductors. <i>Physical Review B</i> , 2022, 105, .	1.1	2
27	Metallic Hydrogen. <i>Inference</i> , 2021, 6, .	0.0	0
28	Laser-Induced Cooperative Transition in Molecular Electronic Crystal (<i>Adv. Mater.</i> 39/2021). <i>Advanced Materials</i> , 2021, 33, .	11.1	0
29	The High-Pressure Search for Metallic Hydrogen. <i>Inference</i> , 2022, 6, .	0.0	0