

Aria Mansouri Tehrani

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

971
citations

933264

10
h-index

839398

18
g-index

24
all docs

24
docs citations

24
times ranked

1328
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting the Band Gaps of Inorganic Solids by Machine Learning. Journal of Physical Chemistry Letters, 2018, 9, 1668-1673.	2.1	267
2	Identifying an efficient, thermally robust inorganic phosphor host via machine learning. Nature Communications, 2018, 9, 4377.	5.8	228
3	Machine Learning Directed Search for Ultraincompressible, Superhard Materials. Journal of the American Chemical Society, 2018, 140, 9844-9853.	6.6	215
4	Intrinsic Defects Drive Persistent Luminescence in Monoclinic $\text{SrAl}_2\text{O}_4\text{:Eu}^{2+}$. Journal of Physical Chemistry C, 2018, 122, 16309-16314.	1.5	46
5	Hard and superhard materials: A computational perspective. Journal of Solid State Chemistry, 2019, 271, 47-58.	1.4	45
6	Finding the Next Superhard Material through Ensemble Learning. Advanced Materials, 2021, 33, e2005112.	11.1	33
7	Machine Learning for Structural Materials. Annual Review of Materials Research, 2020, 50, 27-48.	4.3	29
8	Balancing Mechanical Properties and Sustainability in the Search for Superhard Materials. Integrating Materials and Manufacturing Innovation, 2017, 6, 1-8.	1.2	25
9	Influencing the martensitic phase transformation in NiTi through point defects. Journal of Applied Physics, 2015, 118, 014901.	1.1	19
10	Impact of Vacancies on the Mechanical Properties of Ultraincompressible, Hard Rhenium Subnitrides: Re_2N and Re_3N . Chemistry of Materials, 2017, 29, 2542-2549.	3.2	17
11	Atomic Substitution to Balance Hardness, Ductility, and Sustainability in Molybdenum Tungsten Borocarbide. Chemistry of Materials, 2019, 31, 7696-7703.	3.2	11
12	Targeting Productive Composition Space through Machine-Learning-Directed Inorganic Synthesis. Matter, 2020, 3, 261-272.	5.0	11
13	Determining a Structural Distortion and Anion Ordering in $\text{La}_2\text{Si}_4\text{N}_6\text{C}$ via Computation and Experiment. Inorganic Chemistry, 2016, 55, 9454-9460.	1.9	6
14	Untangling the structural, magnetic dipole, and charge multipolar orders in BaMgReO_6 . Physical Review Materials, 2021, 5, .	0.9	6
15	Tailoring the Mechanical Properties of Earth-Abundant Transition Metal Borides via Bonding Optimization. Journal of Physical Chemistry C, 2020, 124, 4430-4437.	1.5	5
16	Mechanism for unconventional nonlinear elasticity. Physical Review B, 2019, 100, .	1.1	4
17	Lattice strain and texture analysis of superhard $\text{Mo}_{0.9}\text{W}_{1.1}\text{BC}$ and $\text{ReWC}_{0.8}$ via diamond anvil cell deformation. Journal of Materials Chemistry A, 2019, 7, 24012-24018.	5.2	2
18	Machine Learning: Finding the Next Superhard Material through Ensemble Learning (Adv. Mater.) Tj ETQq0 0 0 rgBT /Qverlock 10 Tf 50 6	11.1	2

#	ARTICLE	IF	CITATIONS
19	Trends in Bulk Compressibility of Mo ₂ W BC Solid Solutions. Chemistry of Materials, 2022, 34, 2569-2575.	3.2	0