Aria Mansouri Tehrani

List of Publications by Year
in descending order

19	971	933264 10	839398 18
papers	citations	h-index	g-index

24	24	24	1328
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trends in Bulk Compressibility of Mo_{2â€“x}W_xBC Solid Solutions. Chemistry of Materials, 2022, 34, 2569-2575.	3.2	0
2	Finding the Next Superhard Material through Ensemble Learning. Advanced Materials, 2021, 33, e2005112.	11.1	33
3	Machine Learning: Finding the Next Superhard Material through Ensemble Learning (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	11.1	2
4	Untangling the structural, magnetic dipole, and charge multipolar orders in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">MgReO</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review Materials, 2021, 5, .	0.9	6
5	Machine Learning for Structural Materials. Annual Review of Materials Research, 2020, 50, 27-48.	4.3	29
6	Targeting Productive Composition Space through Machine-Learning-Directed Inorganic Synthesis. Matter, 2020, 3, 261-272.	5.0	11
7	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
8	Atomic Substitution to Balance Hardness, Ductility, and Sustainability in Molybdenum Tungsten Borocarbide. Chemistry of Materials, 2019, 31, 7696-7703.	3.2	11
9	Mechanism for unconventional nonlinear elasticity. Physical Review B, 2019, 100, .	1.1	4
10	Lattice strain and texture analysis of superhard Mo_{0.9}W_{1.1}BC and ReWC_{0.8}via diamond anvil cell deformation. Journal of Materials Chemistry A, 2019, 7, 24012-24018.	5.2	2
11	Hard and superhard materials: A computational perspective. Journal of Solid State Chemistry, 2019, 271, 47-58.	1.4	45
12	Predicting the Band Gaps of Inorganic Solids by Machine Learning. Journal of Physical Chemistry Letters, 2018, 9, 1668-1673.	2.1	267
13	Identifying an efficient, thermally robust inorganic phosphor host via machine learning. Nature Communications, 2018, 9, 4377.	5.8	228
14	Intrinsic Defects Drive Persistent Luminescence in Monoclinic SrAl₂O₄:Eu²⁺. Journal of Physical Chemistry C, 2018, 122, 16309-16314.	1.5	46
15	Machine Learning Directed Search for Ultraincompressible, Superhard Materials. Journal of the American Chemical Society, 2018, 140, 9844-9853.	6.6	215
16	Balancing Mechanical Properties and Sustainability in the Search for Superhard Materials. Integrating Materials and Manufacturing Innovation, 2017, 6, 1-8.	1.2	25
17	Impact of Vacancies on the Mechanical Properties of Ultraincompressible, Hard Rhenium Subnitrides: Re₂N and Re₃N. Chemistry of Materials, 2017, 29, 2542-2549.	3.2	17
18	Determining a Structural Distortion and Anion Ordering in La2Si4N6C via Computation and Experiment. Inorganic Chemistry, 2016, 55, 9454-9460.	1.9	6

#	Article	IF	Citations
19	Influencing the martensitic phase transformation in NiTi through point defects. Journal of Applied Physics, 2015, 118, 014901.	1.1	19