Yun Zhang

List of Publications by Citations

73 papers	1,301 citations	24 h-index	34 g-index
78 ext. papers	1,784 ext. citations	2.7 avg, IF	6.82 L-index

#	Paper	IF	Citations
73	Yttrium barium copper oxide superconducting transition temperature modeling through gaussian process regression. *Computational Materials Science*, **2020**, 179, 109583	3.2	62
72	High critical current density Bi2Sr2CaCu2Ox/Ag wire containing oxide precursor synthesized from nano-oxides. *Superconductor Science and Technology*, **2016**, 29, 095012	3.1	59
71	Curie temperature modeling of magnetocaloric lanthanum manganites using Gaussian process regression. *Journal of Magnetism and Magnetic Materials*, **2020**, 512, 166998	2.8	55
70	Synthesis of Bi2Sr2CaCu2Oxsuperconductors via direct oxidation of metallic precursors. *Superconductor Science and Technology*, **2014**, 27, 055016	3.1	55
69	Predicting the thermal conductivity enhancement of nanofluids using computational intelligence. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2020**, 384, 126500	2.3	54
68	Machine Learning Band Gaps of Doped-TiO Photocatalysts from Structural and Morphological Parameters. *ACS Omega*, **2020**, 5, 15344-15352	3.9	53
67	Formation of Bi2Sr2CaCu2Ox/Ag multifilamentary metallic precursor powder-in-tube wires. *Superconductor Science and Technology*, **2016**, 29, 125005	3.1	53
66	Predicting doped MgB2 superconductor critical temperature from lattice parameters using Gaussian process regression. *Physica C: Superconductivity and Its Applications*, **2020**, 573, 1353633	1.3	51
65	Relative cooling power modeling of lanthanum manganites using Gaussian process regression.. *RSC Advances*, **2020**, 10, 20646-20653	3.7	50
64	Machine learning the magnetocaloric effect in manganites from compositions and structural parameters. *AIP Advances*, **2020**, 10, 035220	1.5	49
63	Machine learning the magnetocaloric effect in manganites from lattice parameters. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	49
62	Machine learning optical band gaps of doped-ZnO films. *Optik*, **2020**, 217, 164808	2.5	44
61	Machine learning lattice constants for cubic perovskite A22+BB?O6 compounds. *CrystEngComm*, **2020**, 22, 6385-6397	3.3	43
60	Machine learning modeling of lattice constants for half-Heusler alloys. *AIP Advances*, **2020**, 10, 045121	1.5	42
59	Machine Learning Lattice Constants for Cubic Perovskite Compounds. *ChemistrySelect*, **2020**, 5, 9999-10009	1.9	32
58	Machine learning glass transition temperature of polymers. *Heliyon*, **2020**, 6, e05055	3.6	29
57	Machine Learning Decomposition Onset Temperature of Lubricant Additives. *Journal of Materials Engineering and Performance*, **2020**, 29, 6605-6616	1.6	29

56	Transformation Temperature Predictions Through Computational Intelligence for NiTi-Based Shape Memory Alloys. *Shape Memory and Superelasticity*, **2020**, 6, 374-386	2.8	29
55	Machine learning lattice parameters of monoclinic double perovskites. *International Journal of Quantum Chemistry*, **2021**, 121, e26480	2.1	29
54	Predicting As(_{x})Se(_{1-x}) Glass Transition Onset Temperature. *International Journal of Thermophysics*, **2020**, 41, 1	2.1	28
53	Machine learning lattice constants for spinel compounds. *Chemical Physics Letters*, **2020**, 760, 137993	2.5	27
52	Solubility predictions through LSBoost for supercritical carbon dioxide in ionic liquids. *New Journal of Chemistry*, **2020**, 44, 20544-20567	3.6	26
51	Machine Learning F-Doped Bi(Pb)SrCaCuO Superconducting Transition Temperature. *Journal of Superconductivity and Novel Magnetism*, **2021**, 34, 63-73	1.5	25
50	Machine learning lattice constants from ionic radii and electronegativities for cubic perovskite (A_{2}XY_{6}) compounds. *Physics and Chemistry of Minerals*, **2020**, 47, 1	1.6	24
49	Fe-Based Superconducting Transition Temperature Modeling through Gaussian Process Regression. *Journal of Low Temperature Physics*, **2021**, 202, 205-218	1.3	24
48	Machine learning lattice constants for cubic perovskiteA2XY6compounds. *Journal of Solid State Chemistry*, **2020**, 291, 121558	3.3	23
47	Machine Learning the Central Magnetic Flux Density of Superconducting Solenoids. *Materials Technology*, **2020**, 1-8	2.1	21
46	Lattice Misfit Predictions via the Gaussian Process Regression for Ni-Based Single Crystal Superalloys. *Metals and Materials International*, **2021**, 27, 235-253	2.4	19
45	Machine learning glass transition temperature of polyacrylamides using quantum chemical descriptors. *Polymer Chemistry*, **2021**, 12, 843-851	4.9	16
44	Machine Learning Properties of Electrolyte Additives: A Focus on Redox Potentials. *Industrial & Engineering Chemistry Research*, **2021**, 60, 343-354	3.9	14
43	Predictions of adsorption energies of methane-related species on Cu-based alloys through machine learning. *Machine Learning With Applications*, **2021**, 3, 100010	6.5	14
42	Predictions of the Total Crack Length in Solidification Cracking Through LSBoost. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2021**, 52, 985-1005	2.3	13
41	House price forecasting with neural networks. *Intelligent Systems With Applications*, **2021**, 12, 200052		12
40	Corn cash price forecasting with neural networks. *Computers and Electronics in Agriculture*, **2021**, 184, 106120	6.5	11
39	Machine learning glass transition temperature of styrenic random copolymers. *Journal of Molecular Graphics and Modelling*, **2021**, 103, 107796	2.8	11

38	Predicting the delamination factor in carbon fibre reinforced plastic composites during drilling through the Gaussian process regression. *Journal of Composite Materials*, **2021**, 55, 2061-2068	2.7	10
37	Individual time series and composite forecasting of the Chinese stock index. *Machine Learning With Applications*, **2021**, 5, 100035	6.5	10
36	Predicting doped Fe-based superconductor critical temperature from structural and topological parameters using machine learning. *International Journal of Materials Research*, **2021**, 112, 2-9	0.5	10
35	Second-hand house price index forecasting with neural networks. *Journal of Property Research*,1-22	1.4	7
34	Network analysis of corn cash price comovements. *Machine Learning With Applications*, **2021**, 6, 100140	6.5	7
33	NETWORK ANALYSIS OF HOUSING PRICE COMOVEMENTS OF A HUNDRED CHINESE CITIES. *National Institute Economic Review*,1-19	1.1	6
32	Rent index forecasting through neural networks. *Journal of Economic Studies*, **2021**, ahead-of-print,	2.1	6
31	Predicting the material removal rate during electrical discharge diamond grinding using the Gaussian process regression: a comparison with the artificial neural network and response surface methodology. *International Journal of Advanced Manufacturing Technology*, **2021**, 113, 1527-1533	3.2	6
30	Predicting Multiple Properties of Pervious Concrete through the Gaussian Process Regression. *Advances in Civil Engineering Materials*, **2021**, 10, 20200134	0.7	6
29	Machine learning cutting force, surface roughness, and tool life in high speed turning processes. *Manufacturing Letters*, **2021**, 29, 84-89	4.5	4
28	Contemporaneous causality among one hundred Chinese cities. *Empirical Economics*,1	1.2	3
27	Predicting the superconducting transition temperature and relative resistance ratio in YBa2Cu3O7 films. *Physica C: Superconductivity and Its Applications*, **2021**, 592, 1353998	1.3	3
26	Predicting lattice parameters for orthorhombic distorted-perovskite oxides via machine learning. *Solid State Sciences*, **2021**, 113, 106541	3.4	3
25	Machine learning the lattice constant of cubic pyrochlore compounds. *International Journal of Applied Ceramic Technology*, **2021**, 18, 661-676	2	3
24	Solid particle erosion rate predictions through LSBoost. *Powder Technology*, **2021**, 388, 517-525	5.2	3
23	Machine learning lattice constants of zircon-group minerals MXO4. *Structural Chemistry*, **2021**, 32, 1311-1326	1.8	3
22	Modeling and prediction of lattice parameters of binary spinel compounds (AM2X4) using support vector regression with Bayesian optimization. *New Journal of Chemistry*, **2021**, 45, 15255-15266	3.6	3
21	The Effects of Alloy Addittons of Si and Transitton Metal Elements on the Mechanical Properties of B-Doped Ds Ni3Al. *Materials Research Society Symposia Proceedings*, **1990**, 213, 515		2

20	Soybean and Soybean Oil Price Forecasting through the Nonlinear Autoregressive Neural Network (NARNN) and NARNN with Exogenous Inputs (NARNNX). *Intelligent Systems With Applications*, **2022**, 13, 200061		2
19	Machine Learning Steel Ms Temperature. *Simulation*,003754972199557	1.2	2
18	Machine learning specific heat capacities of nanofluids containing CuO and Al2O3. *AICHE Journal*, **2021**, 67, e17289	3.6	2
17	Machine learning glass transition temperature of polymethacrylates. *Molecular Crystals and Liquid Crystals*,1-14	0.5	2
16	Modeling of lattice parameters of cubic perovskite oxides and halides. *Heliyon*, **2021**, 7, e07601	3.6	2
15	Machine learning modeling of metal surface energy. *Materials Chemistry and Physics*, **2021**, 267, 124622	4.4	2
14	Predicting Magnetic Remanence of NdFeB Magnets from Composition. *Journal of Superconductivity and Novel Magnetism*, **2021**, 34, 2711	1.5	2
13	Predicting mechanical performance of starch-based foam materials. *Journal of Cellular Plastics*,0021955X211062626	1.5	2
12	Modulus of elasticity predictions through LSBoost for concrete of normal and high strength. *Materials Chemistry and Physics*, **2022**, 283, 126007	4.4	2
11	Coking coal futures price index forecasting with the neural network. *Mineral Economics*,	2.2	2
10	Machine learning tensile strength and impact toughness of wheat straw reinforced composites. *Machine Learning With Applications*, **2021**, 6, 100188	6.5	1
9	Machine learning bioactive compound solubilities in supercritical carbon dioxide. *Chemical Physics*, **2021**, 550, 111299	2.3	1
8	Predicting the superconducting transition temperature of high-Temperature layered superconductors via machine learning. *Physica C: Superconductivity and Its Applications*, **2022**, 595, 1354031	1.3	1
7	Modeling oxygen ionic conductivities of ABO3 Perovskites through machine learning. *Chemical Physics*, **2022**, 558, 111511	2.3	1
6	Thermal coal price forecasting via the neural network. *Intelligent Systems With Applications*, **2022**, 14, 200084		1
5	Residential housing price index forecasting via neural networks. *Neural Computing and Applications*,1	4.8	1
4	Predictions of glass transition onset temperature of chalcogenide glass GexSe1x. *Journal of Physics and Chemistry of Solids*, **2021**, 159, 110246	3.9	0
3	Disordered MgB2 superconductor critical temperature modeling through regression trees. *Physica C: Superconductivity and Its Applications*, **2022**, 597, 1354062	1.3	0

2 Practical Design of Ni3Al with High Hot Workability. *Materials Research Society Symposia Proceedings*, **1996**, 460, 517

1 Ductility Response of Ni3Al-Zr-B Base Alloys with Ternary Elements to Strain Rate and High Temperature. *Materials Research Society Symposia Proceedings*, **1996**, 460, 511