Yun Zhang

List of Publications by Year
in descending order

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		159358	253896
78	2,312	30	43
papers	citations	h-index	g-index

78	78	78	437
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Machine Learning Band Gaps of Doped-TiO₂ Photocatalysts from Structural and Morphological Parameters. ACS Omega, 2020, 5, 15344-15352.	1.6	112
2	Yttrium barium copper oxide superconducting transition temperature modeling through gaussian process regression. Computational Materials Science, 2020, 179, 109583.	1.4	82
3	Predicting the thermal conductivity enhancement of nanofluids using computational intelligence. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126500.	0.9	80
4	High critical current density Bi₂Sr₂CaCu₂O_x/Ag wire containing oxide precursor synthesized from nano-oxides. Superconductor Science and Technology, 2016, 29, 095012.	1.8	71
5	Curie temperature modeling of magnetocaloric lanthanum manganites using Gaussian process regression. Journal of Magnetism and Magnetic Materials, 2020, 512, 166998.	1.0	70
6	Machine learning optical band gaps of doped-ZnO films. Optik, 2020, 217, 164808.	1.4	69
7	Synthesis of Bi₂Sr₂CaCu₂O_xsuperconductors via direct oxidation of metallic precursors. Superconductor Science and Technology, 2014, 27, 055016.	1.8	64
8	Machine learning the magnetocaloric effect in manganites from lattice parameters. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	64
9	Predicting doped MgB2 superconductor critical temperature from lattice parameters using Gaussian process regression. Physica C: Superconductivity and Its Applications, 2020, 573, 1353633.	0.6	64
10	Formation of Bi₂Sr₂CaCu₂O_x/Ag multifilamentary metallic precursor powder-in-tube wires. Superconductor Science and Technology, 2016, 29, 125005.	1.8	62
11	Relative cooling power modeling of lanthanum manganites using Gaussian process regression. RSC Advances, 2020, 10, 20646-20653.	1.7	62
12	Machine learning the magnetocaloric effect in manganites from compositions and structural parameters. AIP Advances, 2020, 10, .	0.6	60
13	Machine learning lattice constants for cubic perovskite A₂²⁺BBâ€²O₆ compounds. CrystEngComm, 2020, 22, 6385-6397.	1.3	58
14	Corn cash price forecasting with neural networks. Computers and Electronics in Agriculture, 2021, 184, 106120.	3.7	58
15	Machine learning modeling of lattice constants for half-Heusler alloys. AIP Advances, 2020, 10, .	0.6	57
16	Machine learning glass transition temperature of polymers. Heliyon, 2020, 6, e05055.	1.4	53
17	Lattice Misfit Predictions via the Gaussian Process Regression for Ni-Based Single Crystal Superalloys. Metals and Materials International, 2021, 27, 235-253.	1.8	41
18	Transformation Temperature Predictions Through Computational Intelligence for NiTi-Based Shape Memory Alloys. Shape Memory and Superelasticity, 2020, 6, 374-386.	1.1	40

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19	Machine learning lattice parameters of monoclinic double perovskites. International Journal of Quantum Chemistry, 2021, 121, e26480.	1.0	40
20	House price forecasting with neural networks. Intelligent Systems With Applications, 2021, 12, 200052.	1.9	40
21	Machine Learning Lattice Constants for Cubic Perovskite Compounds. ChemistrySelect, 2020, 5, 9999-10009.	0.7	39
22	Solubility predictions through LSBoost for supercritical carbon dioxide in ionic liquids. New Journal of Chemistry, 2020, 44, 20544-20567.	1.4	37
23	Second-hand house price index forecasting with neural networks. Journal of Property Research, 2022, 39, 215-236.	1.7	37
24	Machine learning lattice constants for spinel compounds. Chemical Physics Letters, 2020, 760, 137993.	1.2	36
25	Fe-Based Superconducting Transition Temperature Modeling through Gaussian Process Regression. Journal of Low Temperature Physics, 2021, 202, 205-218.	0.6	35
26	Machine Learning F-Doped Bi(Pb)â€“Srâ€“Caâ€“Cuâ€“O Superconducting Transition Temperature. Journal of Superconductivity and Novel Magnetism, 2021, 34, 63-73.	0.8	35
27	Machine Learning Decomposition Onset Temperature of Lubricant Additives. Journal of Materials Engineering and Performance, 2020, 29, 6605-6616.	1.2	34
28	Machine learning glass transition temperature of polyacrylamides using quantum chemical descriptors. Polymer Chemistry, 2021, 12, 843-851.	1.9	34
29	Machine learning lattice constants for cubic perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:msub><mml:mi>A</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>X</mml:mi><mml:m compounds. Journal of Solid State Chemistry, 2020, 291, 121558.	1.4	33
30	Rent index forecasting through neural networks. Journal of Economic Studies, 2022, 49, 1321-1339.	1.0	32
31	Contemporaneous causality among one hundred Chinese cities. Empirical Economics, 2022, 63, 2315-2329.	1.5	32
32	Predicting As$$_{x}$$Se$$_{1-x}$$ Glass Transition Onset Temperature. International Journal of Thermophysics, 2020, 41, 1.	1.0	31
33	Machine Learning the Central Magnetic Flux Density of Superconducting Solenoids. Materials Technology, 2022, 37, 272-279.	1.5	30
34	Machine Learning Properties of Electrolyte Additives: A Focus on Redox Potentials. Industrial & Engineering Chemistry Research, 2021, 60, 343-354.	1.8	29
35	NETWORK ANALYSIS OF HOUSING PRICE COMOVEMENTS OF A HUNDRED CHINESE CITIES. National Institute Economic Review, 2023, 264, 110-128.	0.4	29
36	Residential housing price index forecasting via neural networks. Neural Computing and Applications, 2022, 34, 14763-14776.	3.2	29

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37	Individual time series and composite forecasting of the Chinese stock index. Machine Learning With Applications, 2021, 5, 100035.	3.0	28
38	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.	0.3	27
39	Network analysis of corn cash price comovements. Machine Learning With Applications, 2021, 6, 100140.	3.0	25
40	Coking coal futures price index forecasting with the neural network. Mineral Economics, 2023, 36, 349-359.	1.3	25
41	Contemporaneous causality among residential housing prices of ten major Chinese cities. International Journal of Housing Markets and Analysis, 2023, 16, 792-811.	0.7	24
42	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.	1.2	23
43	Predicting doped Fe-based superconductor critical temperature from structural and topological parameters using machine learning. International Journal of Materials Research, 2021, 112, 2-9.	0.1	22
44	Machine learning glass transition temperature of styrenic random copolymers. Journal of Molecular Graphics and Modelling, 2021, 103, 107796.	1.3	21
45	Predictions of adsorption energies of methane-related species on Cu-based alloys through machine learning. Machine Learning With Applications, 2021, 3, 100010.	3.0	21
46	Soybean and Soybean Oil Price Forecasting through the Nonlinear Autoregressive Neural Network (NARNN) and NARNN with Exogenous Inputs (NARNNâ€“X). Intelligent Systems With Applications, 2022, 13, 200061.	1.9	21
47	Thermal coal price forecasting via the neural network. Intelligent Systems With Applications, 2022, 14, 200084.	1.9	19
48	Machine learning specific heat capacities of nanofluids containing CuO and Al₂O₃. AICHE Journal, 2021, 67, e17289.	1.8	18
49	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.	1.1	17
50	Machine learning cutting force, surface roughness, and tool life in high speed turning processes. Manufacturing Letters, 2021, 29, 84-89.	1.1	16
51	Modeling oxygen ionic conductivities of ABO3 Perovskites through machine learning. Chemical Physics, 2022, 558, 111511.	0.9	16
52	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.	1.5	15
53	Solid particle erosion rate predictions through LSBoost. Powder Technology, 2021, 388, 517-525.	2.1	15
54	Modulus of elasticity predictions through LSBoost for concrete of normal and high strength. Materials Chemistry and Physics, 2022, 283, 126007.	2.0	13

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55	Modeling of lattice parameters of cubic perovskite oxides and halides. Heliyon, 2021, 7, e07601.	1.4	12
56	Machine learning modeling of metal surface energy. Materials Chemistry and Physics, 2021, 267, 124622.	2.0	12
57	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.	1.4	12
58	Machine learning the lattice constant of cubic pyrochlore compounds. International Journal of Applied Ceramic Technology, 2021, 18, 661-676.	1.1	11
59	Machine learning lattice constants of zircon-group minerals MXO4. Structural Chemistry, 2021, 32, 1311-1326.	1.0	11
60	Machine learning glass transition temperature of polymethacrylates. Molecular Crystals and Liquid Crystals, 2021, 730, 9-22.	0.4	10
61	Predicting the superconducting transition temperature and relative resistance ratio in YBa<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si24.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si25.svg"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si26.svg"><mml:msub><mml:mrow />	0.6	10
62	Predicting Multiple Properties of Pervious Concrete through the Gaussian Process Regression. Advances in Civil Engineering Materials, 2021, 10, 56-73.	0.2	9
63	Predicting Magnetic Remanence of NdFeB Magnets from Composition. Journal of Superconductivity and Novel Magnetism, 2021, 34, 2711-2715.	0.8	9
64	Machine learning bioactive compound solubilities in supercritical carbon dioxide. Chemical Physics, 2021, 550, 111299.	0.9	9
65	Disordered MgB<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si5.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> superconductor critical temperature modeling through regression trees. Physica C: Superconductivity and Its Applications, 2022, 597, 1354062.	0.6	9
66	Machine Learning Steel Ms Temperature. Simulation, 2021, 97, 383-425.	1.1	8
67	Predicting lattice parameters for orthorhombic distorted-perovskite oxides via machine learning. Solid State Sciences, 2021, 113, 106541.	1.5	7
68	Machine learning doped MgB₂ superconductor critical temperature from topological indices. International Journal of Materials Research, 2022, 113, 652-662.	0.1	6
69	Machine learning tensile strength and impact toughness of wheat straw reinforced composites. Machine Learning With Applications, 2021, 6, 100188.	3.0	5
70	Predicting the superconducting transition temperature of high-Temperature layered superconductors via machine learning. Physica C: Superconductivity and Its Applications, 2022, 595, 1354031.	0.6	5
71	Machine learning surface roughnesses in turning processes of brass metals. International Journal of Advanced Manufacturing Technology, 2022, 121, 2437-2444.	1.5	5
72	Predicting mechanical performance of starch-based foam materials. Journal of Cellular Plastics, 0, , 0021955X2110626.	1.2	4

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73	Machine learning cutting forces in milling processes of functionally graded materials. Advances in Computational Intelligence, 2022, 2, .	0.7	4
74	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.	0.1	3
75	Predictions of glass transition onset temperature of chalcogenide glass Ge Se1âˆ’. Journal of Physics and Chemistry of Solids, 2021, 159, 110246.	1.9	3
76	Predicting springback radii and angles in air bending of high-strength sheet steel through gaussian process regressions. International Journal on Interactive Design and Manufacturing, 0, , .	1.3	3
77	Practical Design of Ni3Al with High Hot Workability. Materials Research Society Symposia Proceedings, 1996, 460, 517.	0.1	0
78	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.	0.1	0