

Wen-Cong Lu

List of Publications by Year in descending order

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80
papers

2,391
citations

201674

27
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223800

46
g-index

81
all docs

81
docs citations

81
times ranked

2696
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Machine Learning Methods for the Development of Antidiabetic Drugs. <i>Current Pharmaceutical Design</i> , 2022, 28, 260-271.	1.9	5
2	Search for ABO ₃ Type Ferroelectric Perovskites with Targeted Multi-Properties by Machine Learning Strategies. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 5038-5049.	5.4	29
3	A machine learning-based alloy design system to facilitate the rational design of high entropy alloys with enhanced hardness. <i>Acta Materialia</i> , 2022, 222, 117431.	7.9	112
4	Theoretical exploration of diverse electron-deficient core and terminal groups in A ²⁺ A ²⁺ A type non-fullerene acceptors for organic solar cells. <i>New Journal of Chemistry</i> , 2022, 46, 3370-3382.	2.8	12
5	New Opportunity: Machine Learning for Polymer Materials Design and Discovery. <i>Advanced Theory and Simulations</i> , 2022, 5, .	2.8	44
6	Predicting Experimental Formability of Hybrid Organic-Inorganic Perovskites via Imbalanced Learning. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3032-3038.	4.6	9
7	Machine Learning-Assisted Design of Ytria-Stabilized Zirconia Thermal Barrier Coatings with High Bonding Strength. <i>ACS Omega</i> , 2022, 7, 21052-21061.	3.5	9
8	Material machine learning for alloys: Applications, challenges and perspectives. <i>Journal of Alloys and Compounds</i> , 2022, 921, 165984.	5.5	39
9	Inverse Design of Hybrid Organic-Inorganic Perovskites with Suitable Bandgaps via Proactive Searching Progress. <i>ACS Omega</i> , 2022, 7, 21583-21594.	3.5	14
10	Machine Learning Aided Design of Polymer with Targeted Band Gap Based on DFT Computation. <i>Journal of Physical Chemistry B</i> , 2021, 125, 601-611.	2.6	20
11	Identifying the Immunological Gene Signatures of Immune Cell Subtypes. <i>BioMed Research International</i> , 2021, 2021, 1-10.	1.9	1
12	Machine Learning Model for High-Throughput Screening of Perovskite Manganites with the Highest Néel Temperature. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 1961-1969.	1.8	3
13	Accelerated discovery of boron-dipyromethene sensitizer for solar cells by integrating data mining and first principle. <i>Journal of Materiomics</i> , 2021, 7, 790-801.	5.7	7
14	Predicting the Formability of Hybrid Organic-Inorganic Perovskites via an Interpretable Machine Learning Strategy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7423-7430.	4.6	36
15	Rapid discovery of narrow bandgap oxide double perovskites using machine learning. <i>Computational Materials Science</i> , 2021, 196, 110528.	3.0	33
16	Physics-Based Feature Makes Machine Learning Cognizing Crystal Properties Simple. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8521-8527.	4.6	3
17	Multiobjective Stepwise Design Strategy-Assisted Design of High-Performance Perovskite Oxide Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21141-21150.	3.1	9
18	A Property-Driven Stepwise Design Strategy for Multiple Low-Melting Alloys via Machine Learning. <i>Advanced Engineering Materials</i> , 2021, 23, 2100612.	3.5	7

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19	Machine learning aided design of perovskite oxide materials for photocatalytic water splitting. <i>Journal of Energy Chemistry</i> , 2021, 60, 351-359.	12.9	68
20	Studies on the regularity of perovskite formation via machine learning. <i>Computational Materials Science</i> , 2021, 199, 110712.	3.0	17
21	Machine learning for perovskite materials design and discovery. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	189
22	Rational design of SM315-based porphyrin sensitizers for highly efficient dye-sensitized solar cells: A theoretical study. <i>Journal of Molecular Structure</i> , 2020, 1205, 127567.	3.6	5
23	Prediction of photoelectric properties, especially power conversion efficiency of cells, of IQ1 and derivative dyes in high-efficiency dye-sensitized solar cells. <i>Solar Energy</i> , 2020, 195, 82-88.	6.1	25
24	First-principles screening and design of C275-based organic dyes for highly efficient dye-sensitized solar cells. <i>Solar Energy</i> , 2020, 207, 759-766.	6.1	3
25	Active learning for the power factor prediction in diamond-like thermoelectric materials. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	43
26	Fuel Ratio Optimization of Blast Furnace Based on Data Mining. <i>ISIJ International</i> , 2020, 60, 2471-2476.	1.4	13
27	Inferring novel genes related to colorectal cancer via random walk with restart algorithm. <i>Gene Therapy</i> , 2019, 26, 373-385.	4.5	3
28	Novel composite BiFeO ₃ /ZrO ₂ and its high photocatalytic performance under white LED visible-light irradiation. <i>Materials Research Bulletin</i> , 2019, 120, 110605.	5.2	36
29	Deep Neural Network Classifier for Virtual Screening Inhibitors of (S)-Adenosyl-L-Methionine (SAM)-Dependent Methyltransferase Family. <i>Frontiers in Chemistry</i> , 2019, 7, 324.	3.6	10
30	Easily recyclable photocatalyst Bi ₂ WO ₆ /MOF/PVDF composite film for efficient degradation of aqueous refractory organic pollutants under visible-light irradiation. <i>Journal of Materials Science</i> , 2019, 54, 6238-6257.	3.7	37
31	Theoretical study of high-efficiency organic dyes with the introduction of different auxiliary heterocyclic acceptors based on IQ1 toward dye-sensitized solar cells. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 86, 170-178.	2.4	19
32	Machine-learning-assisted prediction of surgical outcomes in patients undergoing gastrectomy. <i>Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association</i> , Beijing Institute for Cancer Research, 2019, 31, 797-805.	2.2	12
33	Predicting specific surface areas of layered double hydroxides based on support vector regression integrated with a residual bootstrapping method. <i>Journal of Mathematical Chemistry</i> , 2018, 56, 1744-1758.	1.5	4
34	Material data mining in Nianyi Chen's scientific family. <i>Journal of Chemometrics</i> , 2018, 32, e3022.	1.3	2
35	OCPMDM: Online computation platform for materials data mining. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 177, 26-34.	3.5	28
36	Discovery of 1,8-acridinedione derivatives as novel GCN5 inhibitors via high throughput screening. <i>European Journal of Medicinal Chemistry</i> , 2018, 151, 740-751.	5.5	29

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37	Characterization of Tobacco Leaves by Near-Infrared Reflectance Spectroscopy and Electronic Nose with Support Vector Machine. <i>Analytical Letters</i> , 2018, 51, 1935-1943.	1.8	5
38	Theoretical screening and design of SM315-based porphyrin dyes for highly efficient dye-sensitized solar cells with near-IR light harvesting. <i>Dyes and Pigments</i> , 2018, 155, 292-299.	3.7	41
39	Prediction of potential drivers connecting different dysfunctional levels in lung adenocarcinoma via a protein-protein interaction network. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 2284-2293.	3.8	18
40	Using Data Mining To Search for Perovskite Materials with Higher Specific Surface Area. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 2420-2427.	5.4	28
41	Accelerated search for perovskite materials with higher Curie temperature based on the machine learning methods. <i>Computational Materials Science</i> , 2018, 151, 41-48.	3.0	49
42	Data mining assisted materials design of layered double hydroxide with desired specific surface area. <i>Computational Materials Science</i> , 2017, 136, 29-35.	3.0	18
43	Prediction and synthesis of novel layered double hydroxide with desired basal spacing based on relevance vector machine. <i>Materials Research Bulletin</i> , 2017, 93, 123-129.	5.2	11
44	Electrolyte-controlled discharge product distribution of Na ₂ O ₂ batteries: a combined computational and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2940-2949.	2.8	14
45	Data mining-aided materials discovery and optimization. <i>Journal of Materiomics</i> , 2017, 3, 191-201.	5.7	65
46	Prediction of the aquatic toxicity of aromatic compounds to tetrahymena pyriformis through support vector regression. <i>Oncotarget</i> , 2017, 8, 49359-49369.	1.8	53
47	A Cancer Gene Selection Algorithm Based on the K-S Test and CFS. <i>BioMed Research International</i> , 2017, 2017, 1-6.	1.9	24
48	Mining for genes related to choroidal neovascularization based on the shortest path algorithm and protein interaction information. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 2740-2749.	2.4	6
49	DFT study on addition reaction mechanism of guanine-cytosine base pair with OH radical. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 437-444.	1.9	10
50	Materials design and control synthesis of the layered double hydroxide with the desired basal spacing. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2015, 144, 11-16.	3.5	12
51	Theoretical Study of WS-9-Based Organic Sensitizers for Unusual Vis/NIR Absorption and Highly Efficient Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9782-9790.	3.1	121
52	Theoretical Study of Acene-Bridged Dyes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3299-3309.	2.5	48
53	Discovery and Optimization of Novel, Selective Histone Methyltransferase SET7 Inhibitors by Pharmacophore- and Docking-Based Virtual Screening. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 8166-8181.	6.4	59
54	DFT study of adenine-cytosine base pair damage by OH radical. <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 645-651.	1.9	6

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55	Solvothermal synthesis of Co ₃ O ₄ /Al ₂ O ₃ hollow core-shell microspheres for the catalytic oxidation of CO. CrystEngComm, 2014, 16, 6126-6134.	2.6	6
56	Core-shell Al ₂ O ₃ -Supported Ni for High-Performance Catalytic Reforming of Toluene as a Model Compound of Tar. Arabian Journal for Science and Engineering, 2014, 39, 6671-6678.	1.1	9
57	Size-Controlled Synthesis of BiPO ₄ Nanostructures and Their Photocatalytic Performances. Arabian Journal for Science and Engineering, 2014, 39, 6721-6725.	1.1	6
58	A DFT study on reaction of eupatilin with hydroxyl radical in solution. International Journal of Quantum Chemistry, 2013, 113, 966-974.	2.0	32
59	Novel three-dimensional Co ₃ O ₄ dendritic superstructures: hydrothermal synthesis, formation mechanism and magnetic properties. CrystEngComm, 2013, 15, 1389.	2.6	73
60	Using support vector machine for materials design. Advances in Manufacturing, 2013, 1, 151-159.	6.1	44
61	QSAR studies on pyrrolidine amides derivatives as DPP-IV inhibitors for type 2 diabetes. Medicinal Chemistry Research, 2013, 22, 5274-5283.	2.4	14
62	Thermal-reforming of toluene over core-shell Ni ₃ -Al ₂ O ₃ catalysts. , 2013, , .		0
63	Particle swarm optimization-based support vector regression and Bayesian networks applied to the toxicity of organic compounds to tadpoles (<i>Rana japonica</i>). , 2011, , .		0
64	DFT Study on Molecular Structures and ROS Scavenging Mechanisms of Novel Antioxidants from <i>Lespedeza Virgata</i> . Chinese Journal of Chemical Physics, 2011, 24, 173-180.	1.3	8
65	Predicting Functions of Proteins in Mouse Based on Weighted Protein-Protein Interaction Network and Protein Hybrid Properties. PLoS ONE, 2011, 6, e14556.	2.5	144
66	Classification of the Toxicity of Some Organic Compounds to Tadpoles (<i>Rana Temporaria</i>) Through Integrating Multiple Classifiers. Molecular Informatics, 2011, 30, 672-675.	2.5	7
67	QSPR Study of <i>n</i> -Octanol/Water Partition Coefficient of Some Aromatic Compounds Using Support Vector Regression. QSAR and Combinatorial Science, 2009, 28, 175-182.	1.4	21
68	Classification of Src Kinase Inhibitors Based on Support Vector Machine. QSAR and Combinatorial Science, 2009, 28, 719-727.	1.4	15
69	Low-Temperature Synthesis of Monodisperse 3D Manganese Oxide Nanoflowers and Their Pseudocapacitance Properties. Journal of Physical Chemistry C, 2009, 113, 54-60.	3.1	119
70	Synthesis of Three-Dimensional Hierarchical Dendrites of NdOHCO ₃ via a Facile Hydrothermal Method. Crystal Growth and Design, 2009, 9, 1415-1420.	3.0	27
71	Template-Free Synthesis and Self-Assembly of CeO ₂ Nanospheres Fabricated with Foursquare Nanoflakes. Journal of Physical Chemistry C, 2009, 113, 21520-21525.	3.1	35
72	One-Step Synthesis of Hierarchical Cantaloupe-like AlOOH Superstructures via a Hydrothermal Route. Crystal Growth and Design, 2008, 8, 1426-1429.	3.0	122

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73	Support vector machine for SAR/QSAR of phenethyl-amines. <i>Acta Pharmacologica Sinica</i> , 2007, 28, 1075-1086.	6.1	31
74	Support vector classification for structure-activity-relationship of 1-(1H-1,2,4-triazole-1-yl)-2-(2,4-difluorophenyl)-3-substituted-2-propanols. <i>Journal of Shanghai University</i> , 2007, 11, 521-526.	0.1	0
75	Support vector classification for SAR of 5-HT ₃ receptor antagonists. <i>Journal of Shanghai University</i> , 2006, 10, 366-370.	0.1	0
76	Morphological characterization of Al ₂ O ₃ membrane fabricated by sol-gel dip-coating method. <i>Journal of Shanghai University</i> , 2006, 10, 553-557.	0.1	0
77	Using support vector regression for the prediction of the band gap and melting point of binary and ternary compound semiconductors. <i>Solid State Sciences</i> , 2006, 8, 129-136.	3.2	62
78	Predicting Anti-HIV-1 Activities of HEPT-analog Compounds by Using Support Vector Classification. <i>QSAR and Combinatorial Science</i> , 2005, 24, 1021-1025.	1.4	12
79	Semiempirical Quantum Chemical Method and Artificial Neural Networks Applied for $\hat{\mu}_{\max}$ Computation of Some Azo Dyes. <i>Journal of Chemical Information and Computer Sciences</i> , 2004, 44, 2047-2050.	2.8	24
80	Regularities of formation of ternary alloy phases between non-transition metals. <i>Science in China Series D: Earth Sciences</i> , 2000, 43, 199-205.	0.9	3