Ke Li

List of Publications by Citations

131 papers	4,402 citations	32 h-index	64 g-index
147 ext. papers	5,941 ext. citations	8.8 avg, IF	6.21 L-index

#	Paper	IF	Citations
131	An Evolutionary Many-Objective Optimization Algorithm Based on Dominance and Decomposition. *IEEE Transactions on Evolutionary Computation*, **2015**, 19, 694-716	15.6	650
130	Adaptive Operator Selection With Bandits for a Multiobjective Evolutionary Algorithm Based on Decomposition. *IEEE Transactions on Evolutionary Computation*, **2014**, 18, 114-130	15.6	236
129	Stable Matching-Based Selection in Evolutionary Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2014**, 18, 909-923	15.6	233
128	Influences from solvents on charge storage in titanium carbide MXenes. *Nature Energy*, **2019**, 4, 241-248	62.3	229
127	Advanced Separators for Lithium-Ion and Lithium-Sulfur Batteries: A Review of Recent Progress. *ChemSusChem*, **2016**, 9, 3023-3039	8.3	220
126	Transition metal nitrides for electrochemical energy applications. *Chemical Society Reviews*, **2021**, 50, 1354-1390	58.5	207
125	Solution Synthesis of Semiconducting Two-Dimensional Polymer via Trimerization of Carbonitrile. *Journal of the American Chemical Society*, **2017**, 139, 11666-11669	16.4	133
124	3D MXene Architectures for Efficient Energy Storage and Conversion. *Advanced Functional Materials*, **2020**, 30, 2000842	15.6	132
123	Interrelationship-Based Selection for Decomposition Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2015**, 45, 2076-88	10.2	100
122	. *IEEE Transactions on Evolutionary Computation*, **2019**, 23, 303-315	15.6	99
121	An Ultrafast Conducting Polymer@MXene Positive Electrode with High Volumetric Capacitance for Advanced Asymmetric Supercapacitors. *Small*, **2020**, 16, e1906851	11	98
120	Integration of ultrathin graphene/polyaniline composite nanosheets with a robust 3D graphene framework for highly flexible all-solid-state supercapacitors with superior energy density and exceptional cycling stability. *Journal of Materials Chemistry A*, **2017**, 5, 5466-5474	13	96
119	Three-dimensional graphene/polyimide composite-derived flexible high-performance organic cathode for rechargeable lithium and sodium batteries. *Journal of Materials Chemistry A*, **2017**, 5, 2710-2716	13	89
118	Achieving balance between proximity and diversity in multi-objective evolutionary algorithm. *Information Sciences*, **2012**, 182, 220-242	7.7	82
117	Self-assembled Nafion /metal oxide nanoparticles hybrid proton exchange membranes. *Journal of Membrane Science*, **2010**, 347, 26-31	9.6	79
116	Evolutionary algorithms with segment-based search for multiobjective optimization problems. *IEEE Transactions on Cybernetics*, **2014**, 44, 1295-313	10.2	77
115	Dynamic Multiobjectives Optimization With a Changing Number of Objectives. *IEEE Transactions on Evolutionary Computation*, **2018**, 22, 157-171	15.6	62

114	Dispersion-Assembly Approach to Synthesize Three-Dimensional Graphene/Polymer Composite Aerogel as a Powerful Organic Cathode for Rechargeable Li and Na Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 15549-15556	9.5	60
113	All-pseudocapacitive asymmetric MXene-carbon-conducting polymer supercapacitors. *Nano Energy*, **2020**, 75, 104971	17.1	60
112	Evolutionary Multiobjective Optimization-Based Multimodal Optimization: Fitness Landscape Approximation and Peak Detection. *IEEE Transactions on Evolutionary Computation*, **2018**, 22, 692-706	15.6	60
111	Graphene/polyaniline@carbon cloth composite as a high-performance flexible supercapacitor electrode prepared by a one-step electrochemical co-deposition method. *RSC Advances*, **2017**, 7, 7688-7693	3.7	56
110	A facile synthesis of three dimensional graphene sponge composited with sulfur nanoparticles for flexible Li-S cathodes. *Physical Chemistry Chemical Physics*, **2016**, 18, 22146-53	3.6	56
109	Learning to Decompose: A Paradigm for Decomposition-Based Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2019**, 23, 376-390	15.6	43
108	Matching-Based Selection With Incomplete Lists for Decomposition Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 554-568	15.6	40
107	A three-dimensional graphene framework-enabled high-performance stretchable asymmetric supercapacitor. *Journal of Materials Chemistry A*, **2018**, 6, 1802-1808	13	40
106	Oxidation Mechanisms of the UV/Free Chlorine Process: Kinetic Modeling and Quantitative Structure Activity Relationships. *Environmental Science & Technology*, **2019**, 53, 4335-4345	10.3	38
105	R-Metric: Evaluating the Performance of Preference-Based Evolutionary Multiobjective Optimization Using Reference Points. *IEEE Transactions on Evolutionary Computation*, **2018**, 22, 821-835	15.6	37
104	Evolutionary Many-Objective Optimization Based on Adversarial Decomposition. *IEEE Transactions on Cybernetics*, **2020**, 50, 753-764	10.2	37
103	A dual-population paradigm for evolutionary multiobjective optimization. *Information Sciences*, **2015**, 309, 50-72	7.7	36
102	Personalized search for social media via dominating verbal context. *Neurocomputing*, **2016**, 172, 27-37	5.4	35
101	Characterisation and Modeling of Gallium Nitride Power Semiconductor Devices Dynamic On-State Resistance. *IEEE Transactions on Power Electronics*, **2018**, 33, 5262-5273	7.2	34
100	Efficient Nondomination Level Update Method for Steady-State Evolutionary Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2017**, 47, 2838-2849	10.2	33
99	Integration of Preferences in Decomposition Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2018**, 48, 3359-3370	10.2	32
98	Ti3C2T /PEDOT:PSS hybrid materials for room-temperature methanol sensor. *Chinese Chemical Letters*, **2020**, 31, 1018-1021	8.1	31
97	FEMOSAA. *ACM Transactions on Software Engineering and Methodology*, **2018**, 27, 1-50	3.3	29

96	Class-specific soft voting based multiple extreme learning machines ensemble. *Neurocomputing*, **2015**, 149, 275-284	5.4	28
95	Friction reduction and viscosity modification of cellulose nanocrystals as biolubricant additives in polyalphaolefin oil. *Carbohydrate Polymers*, **2019**, 220, 228-235	10.3	26
94	Ultrathin Nitrogen-Doped Carbon Layer Uniformly Supported on Graphene Frameworks as Ultrahigh-Capacity Anode for Lithium-Ion Full Battery. *Small*, **2018**, 14, e1703969	11	26
93	Learning paradigm based on jumping genes: A general framework for enhancing exploration in evolutionary multiobjective optimization. *Information Sciences*, **2013**, 226, 1-22	7.7	26
92	Triazole End-Grafting on Cellulose Nanocrystals for Water-Redispersion Improvement and Reactive Enhancement to Nanocomposites. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14888-14900	8.3	26
91	Reversible 3D self-assembly of graphene oxide and stimuli-responsive polymers for high-performance graphene-based supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 19098-19106	11	25
90	Ultralow friction induced by tribochemical reactions: a novel mechanism of lubrication on steel surfaces. *Langmuir*, **2013**, 29, 5207-13	4	25
89	Ultralow Friction of Steel Surfaces Using a 1,3-Diketone Lubricant in the Thin Film Lubrication Regime. *Langmuir*, **2015**, 31, 11033-9	4	24
88	Multiprobe Measurement Method for Voltage-Dependent Capacitances of Power Semiconductor Devices in High Voltage. *IEEE Transactions on Power Electronics*, **2013**, 28, 5414-5422	7.2	22
87	SiC/GaN power semiconductor devices: a theoretical comparison and experimental evaluation under different switching conditions. *IET Electrical Systems in Transportation*, **2018**, 8, 3-11	2.1	21
86	Nafion Titania nanocomposite proton exchange membranes. *Journal of Applied Polymer Science*, **2011**, 120, 1186-1192	2.9	20
85	Electrical Performance and Reliability Characterization of a SiC MOSFET Power Module With Embedded Decoupling Capacitors. *IEEE Transactions on Power Electronics*, **2018**, 33, 10594-10601	7.2	19
84	A general framework for evolutionary multiobjective optimization via manifold learning. *Neurocomputing*, **2014**, 146, 65-74	5.4	19
83	Scalable Synthesis of Ultrathin Polyimide Covalent Organic Framework Nanosheets for High-Performance Lithium-Sulfur Batteries. *Journal of the American Chemical Society*, **2021**, 143, 19446-19453	16.4	19
82	Enhancing Diversity for Average Ranking Method in Evolutionary Many-Objective Optimization **2010**, 647-656		19
81	A grid-based fitness strategy for evolutionary many-objective optimization **2010**,		18
80	GaN-HEMT dynamic ON-state resistance characterisation and modelling **2016**,		16
79	1,3-Diketone fluids and their complexes with iron. *Journal of Physical Chemistry A*, **2013**, 117, 3369-76	2.8	16

78	Multi-Objective Differential Evolution with Adaptive Control of Parameters and Operators. *Lecture Notes in Computer Science*, **2011**, 473-487	0.9	16
77	On the Lubrication Mechanism of Surfaces Covered with Surface-Attached Hydrogels. *Macromolecular Chemistry and Physics*, **2016**, 217, 526-536	2.6	16
76	Superlubricity of 1,3-diketone based on autonomous viscosity control at various velocities. *Tribology International*, **2018**, 126, 127-132	4.9	15
75	Interactive Decomposition Multiobjective Optimization Via Progressively Learned Value Functions. *IEEE Transactions on Fuzzy Systems*, **2019**, 27, 849-860	8.3	15
74	Using Current Surface Probe to Measure the Current of the Fast Power Semiconductors. *IEEE Transactions on Power Electronics*, **2015**, 30, 2911-2917	7.2	14
73	A knee-point-based evolutionary algorithm using weighted subpopulation for many-objective optimization. *Swarm and Evolutionary Computation*, **2019**, 47, 33-43	9.8	14
72	Does Preference Always Help? A Holistic Study on Preference-Based Evolutionary Multiobjective Optimization Using Reference Points. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 1078-1096	15.6	13
71	Estimation of distribution algorithm enhanced particle swarm optimization for water distribution network optimization. *Frontiers of Environmental Science and Engineering*, **2016**, 10, 341-351	5.8	13
70	Novel near room-temperature and/or light driven Fe-doped Sr2Bi2O5 photo/thermocatalyst for methylene blue degradation. *Applied Catalysis A: General*, **2015**, 497, 216-224	5.1	13
69	A photolysis coefficient for characterizing the response of aqueous constituents to photolysis. *Frontiers of Environmental Science and Engineering*, **2016**, 10, 428-437	5.8	12
68	Novel NiCoMnO4 thermocatalyst for low-temperature catalytic degradation of methylene blue. *Journal of Molecular Catalysis A*, **2014**, 383-384, 1-9		12
67	Adaptive weights generation for decomposition-based multi-objective optimization using Gaussian process regression **2017**,		12
66	XPS and ToF-SIMS analysis of the tribochemical absorbed films on steel surfaces lubricated with diketone. *Tribology International*, **2019**, 130, 184-190	4.9	12
65	Two-dimensional material inks. *Nature Reviews Materials*,	73.3	11
64	Macroscopic Superlow Friction of Steel and Diamond-Like Carbon Lubricated with a Formanisotropic 1,3-Diketone. *ACS Omega*, **2017**, 2, 8330-8342	3.9	10
63	Activating the hydrogen evolution activity of Pt electrode via synergistic interaction with NiS. *Journal of Colloid and Interface Science*, **2021**, 582, 591-597	9.3	10
62	Anti-spreading behavior of 1,3-diketone lubricating oil on steel surfaces. *Tribology International*, **2018**, 121, 108-113	4.9	9
61	Investigation of ultra-low friction on steel surfaces with diketone lubricants.. *RSC Advances*, **2018**, 8, 9403-9408	3.9	9

60	Multi-objective differential evolution with self-navigation **2012**,		9
59	EVOLVING EXTREME LEARNING MACHINE PARADIGM WITH ADAPTIVE OPERATOR SELECTION AND PARAMETER CONTROL. *International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems*, **2013**, 21, 143-154	0.8	9
58	Intercalation-Induced Reversible Electrochromic Behavior of Two-Dimensional Ti 3 C 2 T x MXene in Organic Electrolytes. *ChemElectroChem*, **2021**, 8, 151-156	4.3	9
57	Direct growth of nanographene at low temperature from carbon black for highly sensitive temperature detectors. *Nanotechnology*, **2016**, 27, 505603	3.4	8
56	Surface Redox Pseudocapacitance of Partially Oxidized Titanium Carbide MXene in Water-in-Salt Electrolyte. *ACS Energy Letters*,30-35	20.1	7
55	Multi-Tenant Cloud Service Composition Using Evolutionary Optimization **2018**,		7
54	Using multi time-scale electro-thermal simulation approach to evaluate SiC-MOSFET power converter in virtual prototyping design tool **2017**,		6
53	Near room-temperature thermocatalysis: a promising avenue for the degradation of polyethylene using NiCoMnO4 powders. *RSC Advances*, **2016**, 6, 11829-11839	3.7	6
52	A novel algorithm for non-dominated hypervolume-based multiobjective optimization **2009**,		6
51	Combining interpretable fuzzy rule-based classifiers via multi-objective hierarchical evolutionary algorithm **2011**,		6
50	Variable Interaction in Multi-objective Optimization Problems. *Lecture Notes in Computer Science*, **2016**, 399-409	0.9	6
49	Vertical distance-based clonal selection mechanism for the multiobjective immune algorithm. *Swarm and Evolutionary Computation*, **2021**, 63, 100886	9.8	6
48	SiC and GaN power transistors switching energy evaluation in hard and soft switching conditions **2016**,		6
47	Visualisation of Pareto Front Approximation: A Short Survey and Empirical Comparisons **2019**,		5
46	Thermocatalytic degradation of low density polyethylene films by responding to the actuation of heat. *RSC Advances*, **2014**, 4, 41744-41752	3.7	5
45	Two-Level Stable Matching-Based Selection in MOEA/D **2015**,		5
44	GaN-HEMT fast switching current measurement method based on current surface probe **2014**,		5
43	Experimental Investigation of GaN Transistor Current Collapse on Power Converter Efficiency for Electrical Vehicles **2019**,		5

42	Empirical Investigations of Reference Point Based Methods When Facing a Massively Large Number of Objectives: First Results. *Lecture Notes in Computer Science*, **2017**, 390-405	0.9	4
41	Immobilization of imidazole moieties in polymer electrolyte composite membrane for elevated temperature fuel cells. *Journal of Power Sources*, **2015**, 298, 68-73	8.9	4
40	Security testing of web applications **2019**,		4
39	Distributed UAV Swarm Formation and Collision Avoidance Strategies Over Fixed and Switching Topologies.. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	4
38	A vector angles-based many-objective particle swarm optimization algorithm using archive. *Applied Soft Computing Journal*, **2021**, 106, 107299	7.5	4
37	Developing Power Semiconductor Device Model for Virtual Prototyping of Power Electronics Systems **2016**,		4
36	EX SITU DEGRADATION OF SILICONE RUBBERS WITH DIFFERENT HARDNESS IN A CATHODE OUTLET SOLUTION OF PEMFC. *Rubber Chemistry and Technology*, **2015**, 88, 475-481	1.7	3
35	Objective Reduction Based on the Least Square Method for Large-Dimensional Multi-objective Optimization Problem **2009**,		3
34	Interfacial Engineered Vanadium Oxide Nanoheterostructures Synchronizing High-Energy and Long-Term Potassium-Ion Storage.. *ACS Nano*, **2022**,	16.7	3
33	Reference Point Based Multi-Objective Optimization of Reservoir Operation: a Comparison of Three Algorithms. *Water Resources Management*, **2020**, 34, 1005-1020	3.7	3
32	A Formal Model for Multi-objective Optimisation of Network Function Virtualisation Placement. *Lecture Notes in Computer Science*, **2019**, 529-540	0.9	2
31	Evaluation of 1,3-diketone as a novel friction modifier for lubricating oils. *Wear*, **2020**, 452-453, 203299	3.5	2
30	SiC/GaN power semiconductor devices inter-electrode capacitances characterization based on multiple current probes **2013**,		2
29	An Spanning Tree based method for pruning non-dominated solutions in multi-objective optimization problems **2009**,		2
28	The Convergence Analysis of Genetic Algorithm Based on Space Mating **2009**,		2
27	Investigation of ionic liquids with and without graphene as lubricant additive for metal/metal and metal/PEEK contacts over a wide temperature range. *Lubrication Science*, **2021**, 33, 100-111	1.3	2
26	A GaN-HEMT Compact Model Including Dynamic RDSon Effect for Power Electronics Converters. *Energies*, **2021**, 14, 2092	3.1	2
25	2D porous Nb4N5@Nb2C heterojunctions for high-performance Li-ion batteries. *2D Materials*, **2022** , 9, 015029	5.9	2

24	Characterization Method of SiC-JFET Interelectrode Capacitances in Linear Region. *IEEE Transactions on Power Electronics*, **2016**, 31, 1528-1540	7.2	1
23	Decomposition multi-objective optimisation **2019**,		1
22	**2009**,		1
21	A three-switch structure for PEMFC and ultracapacitor hybrid in backup power **2009**,		1
20	A weighted voting method using minimum square error based on Extreme Learning Machine **2012**,		1
19	Chemical grafting fluoropolymer on cellulose nanocrystals and its rheological modification to perfluoropolyether oil. *Carbohydrate Polymers*, **2022**, 276, 118802	10.3	1
18	Routing-Led Placement of VNFs in Arbitrary Networks **2020**,		1
17	Transfer Learning Based Parallel Evolutionary Algorithm Framework for Bi-Level Optimization. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	1
16	Novel GaN Power Transistor Substrate Connection to Minimize Common Mode Noise **2018**,		1
15	Degradation of Silicone Rubbers in Fenton Reagents. *Journal Wuhan University of Technology, Materials Science Edition*, **2018**, 33, 793-796	1	1
14	Ultralow friction of 5CB liquid crystal on steel surfaces using a 1,3-diketone additive. *Wear*, **2021**, 480-481, 203934	3.5	1
13	An Improved Two-Archive Evolutionary Algorithm for Constrained Multi-objective Optimization. *Lecture Notes in Computer Science*, **2021**, 235-247	0.9	1
12	Neural Architecture Search for Portrait Parsing. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	1
11	Assessing explicit models of per- and polyfluoroalkyl substances adsorption on anion exchange resins by rapid small-scale column tests.. *Chemosphere*, **2022**, 134547	8.4	1
10	Vertically pillared V2CT /Ti3C2T flexible films for high-performance supercapacitors. *Journal of Alloys and Compounds*, **2022**, 906, 164302	5.7	1
9	Heterostructure-Induced Light Absorption and Charge-Transfer Optimization of a TiO2 Photoanode for Photoelectrochemical Water Splitting. *ACS Applied Energy Materials*, **2021**, 4, 14440-14446	6.1	1
8	Progressive Preference Learning: Proof-of-Principle Results in MOEA/D. *Lecture Notes in Computer Science*, **2019**, 631-643	0.9	0
7	Multi-objective Reinforcement Learning Based Multi-microgrid System Optimisation Problem. *Lecture Notes in Computer Science*, **2021**, 684-696	0.9	0

6	Parallel Algorithms for the Multiobjective Virtual Network Function Placement Problem. *Lecture Notes in Computer Science*, **2021**, 708-720	0.9	0
5	Posterior Decision-Making Based on Decomposition-Driven Knee Point Identification. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	0
4	Preference based multi-objective reinforcement learning for multi-microgrid system optimization problem in smart grid. *Memetic Computing*,1	3.4	0
3	Tribological behavior of cellulose nanocrystal as an eco-friendly additive in lithium-based greases.. *Carbohydrate Polymers*, **2022**, 290, 119478	10.3	0
2	An Enhancement of the NSGA-II Reliability Optimization Using Extended Kalman Filter Based Initialization. *Advances in Intelligent Systems and Computing*, **2022**, 121-128	0.4	
1	Adaptive Operator Selection Based on Dynamic Thompson Sampling for MOEA/D. *Lecture Notes in Computer Science*, **2020**, 271-284	0.9	