

# Ke Li

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1053154/publications.pdf>

Version: 2024-02-01

144  
papers

7,336  
citations

76326

40  
h-index

58581

82  
g-index

147  
all docs

147  
docs citations

147  
times ranked

6841  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Evolutionary Many-Objective Optimization Algorithm Based on Dominance and Decomposition. IEEE Transactions on Evolutionary Computation, 2015, 19, 694-716.	10.0	923
2	Transition metal nitrides for electrochemical energy applications. Chemical Society Reviews, 2021, 50, 1354-1390.	38.1	580
3	Influences from solvents on charge storage in titanium carbide MXenes. Nature Energy, 2019, 4, 241-248.	39.5	363
4	Stable Matching-Based Selection in Evolutionary Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2014, 18, 909-923.	10.0	351
5	Adaptive Operator Selection With Bandits for a Multiobjective Evolutionary Algorithm Based on Decomposition. IEEE Transactions on Evolutionary Computation, 2014, 18, 114-130.	10.0	300
6	Advanced Separators for Lithium-Ion and Lithium-Sulfur Batteries: A Review of Recent Progress. ChemSusChem, 2016, 9, 3023-3039.	6.8	299
7	Two-Archive Evolutionary Algorithm for Constrained Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 303-315.	10.0	285
8	3D MXene Architectures for Efficient Energy Storage and Conversion. Advanced Functional Materials, 2020, 30, 2000842.	14.9	276
9	An Ultrafast Conducting Polymer@MXene Positive Electrode with High Volumetric Capacitance for Advanced Asymmetric Supercapacitors. Small, 2020, 16, e1906851.	10.0	186
10	Solution Synthesis of Semiconducting Two-Dimensional Polymer via Trimerization of Carbonitrile. Journal of the American Chemical Society, 2017, 139, 11666-11669.	13.7	175
11	Evolutionary Algorithms With Segment-Based Search for Multiobjective Optimization Problems. IEEE Transactions on Cybernetics, 2014, 44, 1295-1313.	9.5	143
12	Interrelationship-Based Selection for Decomposition Multiobjective Optimization. IEEE Transactions on Cybernetics, 2015, 45, 2076-2088.	9.5	128
13	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.	10.3	119
14	All-pseudocapacitive asymmetric MXene-carbon-conducting polymer supercapacitors. Nano Energy, 2020, 75, 104971.	16.0	119
15	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.	10.3	111
16	Dynamic Multiobjectives Optimization With a Changing Number of Objectives. IEEE Transactions on Evolutionary Computation, 2018, 22, 157-171.	10.0	106
17	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.	13.7	104
18	Achieving balance between proximity and diversity in multi-objective evolutionary algorithm. Information Sciences, 2012, 182, 220-242.	6.9	94

#	ARTICLE	IF	CITATIONS
19	Evolutionary Multiobjective Optimization-Based Multimodal Optimization: Fitness Landscape Approximation and Peak Detection. <i>IEEE Transactions on Evolutionary Computation</i> , 2018, 22, 692-706.	10.0	90
20	Self-assembled Nafion <sup>®</sup> /metal oxide nanoparticles hybrid proton exchange membranes. <i>Journal of Membrane Science</i> , 2010, 347, 26-31.	8.2	88
21	Evolutionary Many-Objective Optimization Based on Adversarial Decomposition. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 753-764.	9.5	81
22	Dispersion-Assembly Approach to Synthesize Three-Dimensional Graphene/Polymer Composite Aerogel as a Powerful Organic Cathode for Rechargeable Li and Na Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15549-15556.	8.0	79
23	Learning to Decompose: A Paradigm for Decomposition-Based Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019, 23, 376-390.	10.0	77
24	Graphene/polyaniline@carbon cloth composite as a high-performance flexible supercapacitor electrode prepared by a one-step electrochemical co-deposition method. <i>RSC Advances</i> , 2017, 7, 7688-7693.	3.6	76
25	Two-dimensional material inks. <i>Nature Reviews Materials</i> , 2022, 7, 717-735.	48.7	71
26	Oxidation Mechanisms of the UV/Free Chlorine Process: Kinetic Modeling and Quantitative Structure Activity Relationships. <i>Environmental Science &amp; Technology</i> , 2019, 53, 4335-4345.	10.0	70
27	R-Metric: Evaluating the Performance of Preference-Based Evolutionary Multiobjective Optimization Using Reference Points. <i>IEEE Transactions on Evolutionary Computation</i> , 2018, 22, 821-835.	10.0	65
28	A facile synthesis of three dimensional graphene sponge composited with sulfur nanoparticles for flexible Li-S cathodes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22146-22153.	2.8	63
29	Characterisation and Modeling of Gallium Nitride Power Semiconductor Devices Dynamic On-State Resistance. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 5262-5273.	7.9	57
30	Ti3C2T/PEDOT:PSS hybrid materials for room-temperature methanol sensor. <i>Chinese Chemical Letters</i> , 2020, 31, 1018-1021.	9.0	57
31	Efficient Nondomination Level Update Method for Steady-State Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 2838-2849.	9.5	52
32	Integration of Preferences in Decomposition Multiobjective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 3359-3370.	9.5	52
33	Friction reduction and viscosity modification of cellulose nanocrystals as biolubricant additives in polyalphaolefin oil. <i>Carbohydrate Polymers</i> , 2019, 220, 228-235.	10.2	51
34	Class-specific soft voting based multiple extreme learning machines ensemble. <i>Neurocomputing</i> , 2015, 149, 275-284.	5.9	50
35	Matching-Based Selection With Incomplete Lists for Decomposition Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2017, 21, 554-568.	10.0	50
36	A dual-population paradigm for evolutionary multiobjective optimization. <i>Information Sciences</i> , 2015, 309, 50-72.	6.9	49

#	ARTICLE	IF	CITATIONS
37	FEMOSAA. ACM Transactions on Software Engineering and Methodology, 2018, 27, 1-50.	6.0	49
38	A three-dimensional graphene framework-enabled high-performance stretchable asymmetric supercapacitor. Journal of Materials Chemistry A, 2018, 6, 1802-1808.	10.3	48
39	Triazole End-Grafting on Cellulose Nanocrystals for Water-Redispersion Improvement and Reactive Enhancement to Nanocomposites. ACS Sustainable Chemistry and Engineering, 2018, 6, 14888-14900.	6.7	43
40	Surface Redox Pseudocapacitance of Partially Oxidized Titanium Carbide MXene in Water-in-Salt Electrolyte. ACS Energy Letters, 2022, 7, 30-35.	17.4	43
41	Personalized search for social media via dominating verbal context. Neurocomputing, 2016, 172, 27-37.	5.9	39
42	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.	10.0	36
43	Ultralow Friction of Steel Surfaces Using a 1,3-Diketone Lubricant in the Thin Film Lubrication Regime. Langmuir, 2015, 31, 11033-11039.	3.5	35
44	Interfacial Engineered Vanadium Oxide Nanoheterostructures Synchronizing High-Energy and Long-Term Potassium-Ion Storage. ACS Nano, 2022, 16, 1502-1510.	14.6	35
45	Multiprobe Measurement Method for Voltage-Dependent Capacitances of Power Semiconductor Devices in High Voltage. IEEE Transactions on Power Electronics, 2013, 28, 5414-5422.	7.9	34
46	Ultrathin Nitrogen-Doped Carbon Layer Uniformly Supported on Graphene Frameworks as Ultrahigh-Capacity Anode for Lithium-Ion Full Battery. Small, 2018, 14, e1703969.	10.0	34
47	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.	10.3	33
48	SiC/GaN power semiconductor devices: a theoretical comparison and experimental evaluation under different switching conditions. IET Electrical Systems in Transportation, 2018, 8, 3-11.	2.4	33
49	Ultralow Friction Induced by Tribochemical Reactions: A Novel Mechanism of Lubrication on Steel Surfaces. Langmuir, 2013, 29, 5207-5213.	3.5	30
50	Electrical Performance and Reliability Characterization of a SiC MOSFET Power Module With Embedded Decoupling Capacitors. IEEE Transactions on Power Electronics, 2018, 33, 10594-10601.	7.9	30
51	Learning paradigm based on jumping genes: A general framework for enhancing exploration in evolutionary multiobjective optimization. Information Sciences, 2013, 226, 1-22.	6.9	29
52	A general framework for evolutionary multiobjective optimization via manifold learning. Neurocomputing, 2014, 146, 65-74.	5.9	29
53	Activating the hydrogen evolution activity of Pt electrode via synergistic interaction with NiS <sub>2</sub> . Journal of Colloid and Interface Science, 2021, 582, 591-597.	9.4	29
54	Superlubricity of 1,3-diketone based on autonomous viscosity control at various velocities. Tribology International, 2018, 126, 127-132.	5.9	27

#	ARTICLE	IF	CITATIONS
55	Interactive Decomposition Multiobjective Optimization Via Progressively Learned Value Functions. IEEE Transactions on Fuzzy Systems, 2019, 27, 849-860.	9.8	27
56	Distributed UAV Swarm Formation and Collision Avoidance Strategies Over Fixed and Switching Topologies. IEEE Transactions on Cybernetics, 2022, 52, 10969-10979.	9.5	26
57	A grid-based fitness strategy for evolutionary many-objective optimization. , 2010, , .		24
58	On the Lubrication Mechanism of Surfaces Covered with Surface-Attached Hydrogels. Macromolecular Chemistry and Physics, 2016, 217, 526-536.	2.2	23
59	GaN-HEMT dynamic ON-state resistance characterisation and modelling. , 2016, , .		23
60	Adaptive weights generation for decomposition-based multi-objective optimization using Gaussian process regression. , 2017, , .		23
61	Nafion <sup>®</sup> -titania nanocomposite proton exchange membranes. Journal of Applied Polymer Science, 2011, 120, 1186-1192.	2.6	22
62	A knee-point-based evolutionary algorithm using weighted subpopulation for many-objective optimization. Swarm and Evolutionary Computation, 2019, 47, 33-43.	8.1	21
63	XPS and ToF-SIMS analysis of the tribochemical absorbed films on steel surfaces lubricated with diketone. Tribology International, 2019, 130, 184-190.	5.9	21
64	Intercalation-Induced Reversible Electrochromic Behavior of Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene in Organic Electrolytes. ChemElectroChem, 2021, 8, 151-156.	3.4	21
65	Multi-Objective Differential Evolution with Adaptive Control of Parameters and Operators. Lecture Notes in Computer Science, 2011, , 473-487.	1.3	21
66	Estimation of distribution algorithm enhanced particle swarm optimization for water distribution network optimization. Frontiers of Environmental Science and Engineering, 2016, 10, 341-351.	6.0	19
67	Using Current Surface Probe to Measure the Current of the Fast Power Semiconductors. IEEE Transactions on Power Electronics, 2015, 30, 2911-2917.	7.9	18
68	1,3-Diketone Fluids and Their Complexes with Iron. Journal of Physical Chemistry A, 2013, 117, 3369-3376.	2.5	17
69	A photolysis coefficient for characterizing the response of aqueous constituents to photolysis. Frontiers of Environmental Science and Engineering, 2016, 10, 428-437.	6.0	17
70	Macroscopic Superlow Friction of Steel and Diamond-Like Carbon Lubricated with a Formanisotropic 1,3-Diketone. ACS Omega, 2017, 2, 8330-8342.	3.5	17
71	Reference Point Based Multi-Objective Optimization of Reservoir Operation: a Comparison of Three Algorithms. Water Resources Management, 2020, 34, 1005-1020.	3.9	17
72	Novel NiCoMnO <sub>4</sub> thermocatalyst for low-temperature catalytic degradation of methylene blue. Journal of Molecular Catalysis A, 2014, 383-384, 1-9.	4.8	16

#	ARTICLE	IF	CITATIONS
73	Novel near room-temperature and/or light driven Fe-doped Sr <sub>2</sub> Bi <sub>2</sub> O <sub>5</sub> photo/thermocatalyst for methylene blue degradation. Applied Catalysis A: General, 2015, 497, 216-224.	4.3	15
74	A vector angles-based many-objective particle swarm optimization algorithm using archive. Applied Soft Computing Journal, 2021, 106, 107299.	7.2	15
75	Vertically pillared V <sub>2</sub> CT /Ti <sub>3</sub> C <sub>2</sub> T flexible films for high-performance supercapacitors. Journal of Alloys and Compounds, 2022, 906, 164302.	5.5	15
76	Anti-spreading behavior of 1,3-diketone lubricating oil on steel surfaces. Tribology International, 2018, 121, 108-113.	5.9	14
77	Multi-Tenant Cloud Service Composition Using Evolutionary Optimization. , 2018, , .		14
78	Vertical distance-based clonal selection mechanism for the multiobjective immune algorithm. Swarm and Evolutionary Computation, 2021, 63, 100886.	8.1	14
79	SiC and GaN power transistors switching energy evaluation in hard and soft switching conditions. , 2016, , .		13
80	EVOLVING EXTREME LEARNING MACHINE PARADIGM WITH ADAPTIVE OPERATOR SELECTION AND PARAMETER CONTROL. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2013, 21, 143-154.	1.9	12
81	Investigation of ultra-low friction on steel surfaces with diketone lubricants. RSC Advances, 2018, 8, 9402-9408.	3.6	12
82	Heterostructure-Induced Light Absorption and Charge-Transfer Optimization of a TiO <sub>2</sub> Photoanode for Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2021, 4, 14440-14446.	5.1	12
83	Security testing of web applications. , 2019, , .		11
84	Multi-objective differential evolution with self-navigation. , 2012, , .		10
85	Direct growth of nanographene at low temperature from carbon black for highly sensitive temperature detectors. Nanotechnology, 2016, 27, 505603.	2.6	10
86	Using multi time-scale electro-thermal simulation approach to evaluate SiC-MOSFET power converter in virtual prototyping design tool. , 2017, , .		10
87	Visualisation of Pareto Front Approximation: A Short Survey and Empirical Comparisons. , 2019, , .		10
88	Experimental Investigation of GaN Transistor Current Collapse on Power Converter Efficiency for Electrical Vehicles. , 2019, , .		10
89	Transfer Learning-Based Parallel Evolutionary Algorithm Framework for Bilevel Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 115-129.	10.0	10
90	Chemical grafting fluoropolymer on cellulose nanocrystals and its rheological modification to perfluoropolyether oil. Carbohydrate Polymers, 2022, 276, 118802.	10.2	10

#	ARTICLE	IF	CITATIONS
91	Tribological behavior of cellulose nanocrystal as an eco-friendly additive in lithium-based greases. <i>Carbohydrate Polymers</i> , 2022, 290, 119478.	10.2	10
92	A GaN-HEMT Compact Model Including Dynamic RDSon Effect for Power Electronics Converters. <i>Energies</i> , 2021, 14, 2092.	3.1	9
93	Variable Interaction in Multi-objective Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2016, , 399-409.	1.3	9
94	2D porous Nb <sub>4</sub> N <sub>5</sub> @Nb <sub>2</sub> C heterojunctions for high-performance Li-ion batteries. <i>2D Materials</i> , 2022, 9, 015029.	4.4	9
95	A novel algorithm for non-dominated hypervolume-based multiobjective optimization. , 2009, , .		8
96	Near room-temperature thermocatalysis: a promising avenue for the degradation of polyethylene using NiCoMnO <sub>4</sub> powders. <i>RSC Advances</i> , 2016, 6, 11829-11839.	3.6	8
97	Ultralow friction of 5CB liquid crystal on steel surfaces using a 1,3-diketone additive. <i>Wear</i> , 2021, 480-481, 203934.	3.1	8
98	Combining interpretable fuzzy rule-based classifiers via multi-objective hierarchical evolutionary algorithm. , 2011, , .		7
99	Developing Power Semiconductor Device Model for Virtual Prototyping of Power Electronics Systems. , 2016, , .		7
100	Surrogate Assisted Evolutionary Algorithm Based on Transfer Learning for Dynamic Expensive Multi-Objective Optimisation Problems. , 2020, , .		7
101	Two-Level Stable Matching-Based Selection in MOEA/D. , 2015, , .		6
102	Empirical Investigations of Reference Point Based Methods When Facing a Massively Large Number of Objectives: First Results. <i>Lecture Notes in Computer Science</i> , 2017, , 390-405.	1.3	6
103	Evaluation of 1,3-diketone as a novel friction modifier for lubricating oils. <i>Wear</i> , 2020, 452-453, 203299.	3.1	6
104	Neural Architecture Search for Portrait Parsing. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 1112-1121.	11.3	6
105	Investigation of ionic liquids with and without graphene as lubricant additive for metal/metal and metal/ PEEK contacts over a wide temperature range. <i>Lubrication Science</i> , 2021, 33, 100-111.	2.1	6
106	Adaptive Operator Selection Based on Dynamic Thompson Sampling for MOEA/D. <i>Lecture Notes in Computer Science</i> , 2020, , 271-284.	1.3	6
107	Preference based multi-objective reinforcement learning for multi-microgrid system optimization problem in smart grid. <i>Memetic Computing</i> , 2022, 14, 225-235.	4.0	6
108	Objective Reduction Based on the Least Square Method for Large-Dimensional Multi-objective Optimization Problem. , 2009, , .		5

#	ARTICLE	IF	CITATIONS
109	GaN-HEMT fast switching current measurement method based on current surface probe. , 2014, , .		5
110	Thermocatalytic degradation of low density polyethylene films by responding to the actuation of heat. RSC Advances, 2014, 4, 41744-41752.	3.6	5
111	EX SITU DEGRADATION OF SILICONE RUBBERS WITH DIFFERENT HARDNESS IN A CATHODE OUTLET SOLUTION OF PEMFC. Rubber Chemistry and Technology, 2015, 88, 475-481.	1.2	5
112	Immobilization of imidazole moieties in polymer electrolyte composite membrane for elevated temperature fuel cells. Journal of Power Sources, 2015, 298, 68-73.	7.8	5
113	Characterization Method of SiC-JFET Interelectrode Capacitances in Linear Region. IEEE Transactions on Power Electronics, 2016, 31, 1528-1540.	7.9	5
114	Assessing explicit models of per- and polyfluoroalkyl substances adsorption on anion exchange resins by rapid small-scale column tests. Chemosphere, 2022, 300, 134547.	8.2	5
115	A Formal Model for Multi-objective Optimisation of Network Function Virtualisation Placement. Lecture Notes in Computer Science, 2019, , 529-540.	1.3	4
116	Progressive Preference Learning: Proof-of-Principle Results in MOEA/D. Lecture Notes in Computer Science, 2019, , 631-643.	1.3	4
117	Mode of short-circuit state operation in 24-pulse uncontrolled bridge rectifier. , 2009, , .		2
118	A three-switch structure for PEMFC and ultracapacitor hybrid in backup power. , 2009, , .		2
119	An Spanning Tree based method for pruning non-dominated solutions in multi-objective optimization problems. , 2009, , .		2
120	The Convergence Analysis of Genetic Algorithm Based on Space Mating. , 2009, , .		2
121	A weighted voting method using minimum square error based on Extreme Learning Machine. , 2012, , .		2
122	SiC/GaN power semiconductor devices inter-electrode capacitances characterization based on multiple current probes. , 2013, , .		2
123	Evolutionary multiobjective optimization with hybrid selection principles. , 2015, , .		2
124	An Improved Two-Archive Evolutionary Algorithm for Constrained Multi-objective Optimization. Lecture Notes in Computer Science, 2021, , 235-247.	1.3	2
125	Posterior Decision Making Based on Decomposition-Driven Knee Point Identification. IEEE Transactions on Evolutionary Computation, 2022, 26, 1409-1423.	10.0	2
126	Knee Point Identification Based on Voronoi Diagram. , 2020, , .		2



#	ARTICLE	IF	CITATIONS
127	SiC/GaN Power Semiconductor Devices Theoretical Comparison and Experimental Evaluation. , 2016, , .		1
128	Novel GaN Power Transistor Substrate Connection to Minimize Common Mode Noise. , 2018, , .		1
129	Degradation of Silicone Rubbers in Fentonâ€™s Reagents. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 793-796.	1.0	1
130	Decomposition multi-objective optimisation. , 2019, , .		1
131	Which Surrogate Works for Empirical Performance Modelling? A Case Study with Differential Evolution. , 2019, , .		1
132	Routing-Led Placement of VNFs in Arbitrary Networks. , 2020, , .		1
133	Multi-objective Reinforcement Learning Based Multi-microgrid System Optimisation Problem. Lecture Notes in Computer Science, 2021, , 684-696.	1.3	1
134	A new design of flux observer based on Finite Element Method. , 2009, , .		0
135	An Improved Differential Evolution for Multi-objective Optimization. , 2009, , .		0
136	JGBL paradigm. , 2011, , .		0
137	AN indicator-based selection multi-objective evolutionary algorithm with preference for multi-class ensemble. , 2014, , .		0
138	Fast Power Semiconductors Switching Current Measurement by Current Surface Probe. EPE Journal (European Power Electronics and Drives Journal), 2015, 25, 4-10.	0.7	0
139	A High Performance and Low Cost Half Bridge IGBT Planar Power Module. , 2018, , .		0
140	Decomposition multi-objective optimisation. , 2018, , .		0
141	An Enhancement of the NSGA-II Reliability Optimization Using Extended Kalman Filter Based Initialization. Advances in Intelligent Systems and Computing, 2022, , 121-128.	0.6	0
142	Knee Point Identification Based on the Geometric Characteristic. , 2021, , .		0
143	ADMM-based OPF Problem Against Cyber Attacks in Smart Grid. , 2021, , .		0
144	A two-stage algorithm for solving constrained multi-objective optimization problems. , 2021, , .		0