

Tao Wu

List of Publications by Year in descending order

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206
papers

6,109
citations

66315

42
h-index

106281

65
g-index

209
all docs

209
docs citations

209
times ranked

6218
citing authors

#	ARTICLE	IF	CITATIONS
1	The First 75 Days of Novel Coronavirus (SARS-CoV-2) Outbreak: Recent Advances, Prevention, and Treatment. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2323.	1.2	178
2	A Review of Sludge-to-Energy Recovery Methods. <i>Energies</i> , 2019, 12, 60.	1.6	174
3	Hg ⁰ Capture over CoMoS ₂ -Al ₂ O ₃ with MoS ₂ Nanosheets at Low Temperatures. <i>Environmental Science & Technology</i> , 2016, 50, 1056-1064.	4.6	157
4	An energy-responsive optimization method for machine tool selection and operation sequence in flexible machining job shops. <i>Journal of Cleaner Production</i> , 2015, 87, 245-254.	4.6	154
5	Highly Robust, Transparent, and Breathable Epidermal Electrode. <i>ACS Nano</i> , 2018, 12, 9326-9332.	7.3	153
6	Adsorptive removal of organic dyes via porous materials for wastewater treatment in recent decades: A review on species, mechanisms and perspectives. <i>Chemosphere</i> , 2022, 293, 133464.	4.2	146
7	Characterisation of residual carbon from entrained-bed coal water slurry gasifiers. <i>Fuel</i> , 2007, 86, 972-982.	3.4	142
8	Microwave-enhanced pyrolysis of macroalgae and microalgae for syngas production. <i>Bioresource Technology</i> , 2017, 237, 47-56.	4.8	129
9	Recent progress of organic photovoltaics for indoor energy harvesting. <i>Nano Energy</i> , 2021, 82, 105770.	8.2	128
10	Foldable Semitransparent Organic Solar Cells for Photovoltaic and Photosynthesis. <i>Advanced Energy Materials</i> , 2020, 10, 2000136.	10.2	120
11	Promotion effect and mechanism of the addition of Mo on the enhanced low temperature SCR of NO _x by NH ₃ over MnO _x /Al ₂ O ₃ catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 743-752.	10.8	113
12	Structural defects in 2D MoS ₂ nanosheets and their roles in the adsorption of airborne elemental mercury. <i>Journal of Hazardous Materials</i> , 2019, 366, 240-249.	6.5	107
13	Biomass-Derived Materials for Electrochemical Energy Storage and Conversion: Overview and Perspectives. <i>Energy and Environmental Materials</i> , 2019, 2, 55-67.	7.3	101
14	A hybrid simulated annealing metaheuristic algorithm for the two-dimensional knapsack packing problem. <i>Computers and Operations Research</i> , 2012, 39, 64-73.	2.4	88
15	Energy, exergy and environmental analyses of conventional, steam and CO ₂ -enhanced rice straw gasification. <i>Energy</i> , 2016, 94, 579-588.	4.5	87
16	High efficiency synthesis of HKUST-1 under mild conditions with high BET surface area and CO ₂ uptake capacity. <i>Progress in Natural Science: Materials International</i> , 2018, 28, 584-589.	1.8	82
17	Conventional and microwave-assisted pyrolysis of gumwood: A comparison study using thermodynamic evaluation and hydrogen production. <i>Fuel Processing Technology</i> , 2019, 184, 1-11.	3.7	82
18	A novel index for the study of synergistic effects during the co-processing of coal and biomass. <i>Applied Energy</i> , 2017, 188, 215-225.	5.1	80

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19	Recent Advances in Transition Metal Nitride-Based Materials for Photocatalytic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2100553.	7.8	80
20	Estimating the Spontaneous Combustion Potential of Coals Using Thermogravimetric Analysis. <i>Energy & Fuels</i> , 2014, 28, 1765-1773.	2.5	76
21	Synthesis of graphene: Potential carbon precursors and approaches. <i>Nanotechnology Reviews</i> , 2020, 9, 1284-1314.	2.6	72
22	Visible-light-driven CO ₂ reduction to ethylene on CdS: Enabled by structural relaxation-induced intermediate dimerization and enhanced by ZIF-8 coating. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119834.	10.8	71
23	An optimization framework for solving capacitated multi-level lot-sizing problems with backlogging. <i>European Journal of Operational Research</i> , 2011, 214, 428-441.	3.5	68
24	An automated ash fusion test for characterisation of the behaviour of ashes from biomass and coal at elevated temperatures. <i>Fuel</i> , 2013, 103, 454-466.	3.4	68
25	Catalyst-Free Synthesis of Multiwalled Carbon Nanotubes via Microwave-Induced Processing of Biomass. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 15012-15019.	1.8	66
26	Graphene-like MoS ₂ containing adsorbents for Hg ⁰ capture at coal-fired power plants. <i>Applied Energy</i> , 2017, 207, 254-264.	5.1	64
27	Robust weekly aircraft maintenance routing problem and the extension to the tail assignment problem. <i>Transportation Research Part B: Methodological</i> , 2015, 78, 238-259.	2.8	63
28	The procedure used to develop a coal char classification—Commission III Combustion Working Group of the International Committee for Coal and Organic Petrology. <i>International Journal of Coal Geology</i> , 2010, 81, 333-342.	1.9	62
29	Recovery of elemental sulphur via selective catalytic reduction of SO ₂ over sulphided CoMo/Al ₂ O ₃ catalysts. <i>Fuel</i> , 2015, 147, 67-75.	3.4	60
30	The COVID-19 Vaccines: Recent Development, Challenges and Prospects. <i>Vaccines</i> , 2021, 9, 349.	2.1	60
31	Development of nano Ni _x Mg _y O solid solutions with outstanding anti-carbon deposition capability for the steam reforming of methanol. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 84-97.	10.8	59
32	Optimized synthesis of nano-scale high quality HKUST-1 under mild conditions and its application in CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2018, 270, 249-257.	2.2	59
33	MoO ₃ -adjusted γ -MnO ₂ nanosheet for catalytic oxidation of Hg ⁰ to Hg ²⁺ . <i>Applied Catalysis B: Environmental</i> , 2020, 263, 117829.	10.8	59
34	Relationship between thermal behaviour of lignocellulosic components and properties of biomass. <i>Bioresource Technology</i> , 2014, 172, 312-320.	4.8	57
35	Tuning dry reforming of methane for F-T syntheses: A thermodynamic approach. <i>Applied Energy</i> , 2018, 227, 190-197.	5.1	56
36	A recent trend: application of graphene in catalysis. <i>Carbon Letters</i> , 2021, 31, 177-199.	3.3	56

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37	Synthesis of graphene oxide and graphene quantum dots from miscanthus via ultrasound-assisted mechano-chemical cracking method. <i>Ultrasonics Sonochemistry</i> , 2021, 73, 105519.	3.8	55
38	Data-Driven Materials Innovation and Applications. <i>Advanced Materials</i> , 2022, 34, e2104113.	11.1	51
39	A Review of Microwave Coal Processing. <i>Journal of Microwave Power and Electromagnetic Energy</i> , 2014, 48, 35-60.	0.4	49
40	Char characterisation and its application in a coal burnout model†. <i>Fuel</i> , 2003, 82, 1989-2000.	3.4	48
41	Improvement of mechanical properties of recycled plastic blends via optimizing processing parameters using the Taguchi method and principal component analysis. <i>Materials & Design</i> , 2014, 62, 189-198.	5.1	48
42	Petrographic characterization of coals as a tool to detect spontaneous combustion potential. <i>Fuel</i> , 2014, 125, 173-182.	3.4	46
43	Morphology and reactivity characteristics of char biomass particles. <i>Bioresource Technology</i> , 2011, 102, 5237-5243.	4.8	43
44	Characteristics and synergistic effects of co-firing of coal and carbonaceous wastes. <i>Fuel</i> , 2013, 104, 194-200.	3.4	41
45	Machine learning-driven algorithms for the container relocation problem. <i>Transportation Research Part B: Methodological</i> , 2020, 139, 102-131.	2.8	40
46	In-situ monitoring of the transformation of ash upon heating and the prediction of ash fusion behaviour of coal/biomass blends. <i>Energy</i> , 2020, 199, 117330.	4.5	40
47	Bio-DME production based on conventional and CO ₂ -enhanced gasification of biomass: A comparative study on exergy and environmental impacts. <i>Biomass and Bioenergy</i> , 2018, 110, 105-113.	2.9	37
48	N-doping enabled defect-engineering of MoS ₂ for enhanced and selective adsorption of CO ₂ : A DFT approach. <i>Applied Surface Science</i> , 2021, 542, 148556.	3.1	37
49	Catalytic Conversion of Methane at Low Temperatures: A Critical Review. <i>Energy Technology</i> , 2020, 8, 1900750.	1.8	36
50	Production of H ₂ -Rich Syngas From Lignocellulosic Biomass Using Microwave-Assisted Pyrolysis Coupled With Activated Carbon Enabled Reforming. <i>Frontiers in Chemistry</i> , 2020, 8, 3.	1.8	36
51	Novel two-stage fluidized bed-plasma gasification integrated with SOFC and chemical looping combustion for the high efficiency power generation from MSW: A thermodynamic investigation. <i>Energy Conversion and Management</i> , 2021, 236, 114066.	4.4	36
52	Field measurements of water storage capacity in a loess "gravel capillary barrier cover using rainfall simulation tests. <i>Canadian Geotechnical Journal</i> , 2017, 54, 1523-1536.	1.4	35
53	Gasification reactivity and synergistic effect of conventional and microwave pyrolysis derived algae chars in CO ₂ atmosphere. <i>Journal of the Energy Institute</i> , 2019, 92, 730-740.	2.7	35
54	Ignition and Kinetic Studies: The Influence of Lignin on Biomass Combustion. <i>Energy & Fuels</i> , 2019, 33, 6463-6472.	2.5	34

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55	Cu-ZrO ₂ catalysts with highly dispersed Cu nanoclusters derived from ZrO ₂ @ HKUST-1 composites for the enhanced CO ₂ hydrogenation to methanol. <i>Chemical Engineering Journal</i> , 2021, 419, 129656.	6.6	34
56	Conservative allocation models for outbound containers in container terminals. <i>European Journal of Operational Research</i> , 2014, 238, 155-165.	3.5	33
57	Mathematical models for capacitated multi-level production planning problems with linked lot sizes. <i>International Journal of Production Research</i> , 2011, 49, 6227-6247.	4.9	32
58	Development of Pd _n /g-C ₃ N ₄ adsorbent for Hg ⁰ removal – DFT study of influences of the support and Pd cluster size. <i>Fuel</i> , 2019, 254, 115537.	3.4	32
59	Kinetic study of the pyrolysis of microalgae under nitrogen and CO ₂ atmosphere. <i>Renewable Energy</i> , 2020, 145, 2159-2168.	4.3	32
60	Thermodynamic Equilibrium Analysis of CO ₂ Reforming of Methane: Elimination of Carbon Deposition and Adjustment of H ₂ /CO Ratio. <i>Energy Procedia</i> , 2017, 105, 1864-1869.	1.8	31
61	A proposed biomass char classification system. <i>Fuel</i> , 2018, 232, 845-854.	3.4	31
62	Hg ⁰ -temperature-programmed surface reaction and its application on the investigation of metal oxides for Hg ⁰ capture. <i>Fuel</i> , 2016, 181, 1089-1094.	3.4	30
63	Catalytic and non-catalytic synergistic effects and their individual contributions to improved combustion performance of coal/biomass blends. <i>Applied Energy</i> , 2018, 211, 334-345.	5.1	30
64	Influence of lignocellulose and plant cell walls on biomass char morphology and combustion reactivity. <i>Biomass and Bioenergy</i> , 2018, 119, 480-491.	2.9	30
65	The impact of ash pellet characteristics and pellet processing parameters on ash fusion behaviour. <i>Fuel</i> , 2019, 251, 779-788.	3.4	30
66	An improved MIP heuristic for the intermodal hub location problem. <i>Omega</i> , 2015, 57, 203-211.	3.6	29
67	Integrated Dynamic and Steady State Method and Its Application on the Screening of MoS ₂ Nanosheet-Containing Adsorbents for Hg ⁰ Capture. <i>Energy & Fuels</i> , 2018, 32, 5338-5344.	2.5	29
68	An HNP-MP Approach for the Capacitated Multi-Item Lot Sizing Problem With Setup Times. <i>IEEE Transactions on Automation Science and Engineering</i> , 2010, 7, 500-511.	3.4	28
69	Nanocomposite electret with surface potential self-recovery from water dipping for environmentally stable energy harvesting. <i>Nano Energy</i> , 2019, 64, 103913.	8.2	27
70	Utilization of CO ₂ in renewable DME fuel production: A life cycle analysis (LCA)-based case study in China. <i>Fuel</i> , 2019, 254, 115627.	3.4	27
71	Effect of the addition of different waste carbonaceous materials on coal gasification in CO ₂ atmosphere. <i>Fuel Processing Technology</i> , 2016, 149, 231-238.	3.7	26
72	Environmentally persistent free radicals in PM _{2.5} : a review. <i>Waste Disposal & Sustainable Energy</i> , 2019, 1, 177-197.	1.1	26

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73	Local Cuts and Two-Period Convex Hull Closures for Big-Bucket Lot-Sizing Problems. <i>INFORMS Journal on Computing</i> , 2016, 28, 766-780.	1.0	25
74	Influence of minerals on the thermal processing of bamboo with a suite of carbonaceous materials. <i>Fuel</i> , 2016, 180, 256-262.	3.4	25
75	Microwave-induced activation of additional active edge sites on the MoS ₂ surface for enhanced Hg ⁰ capture. <i>Applied Surface Science</i> , 2017, 420, 439-445.	3.1	25
76	Facile one-pot fabrication of magnetic nanoparticles (MNPs)-supported organocatalysts using phosphonate as an anchor point through direct co-precipitation method. <i>RSC Advances</i> , 2014, 4, 38323-38333.	1.7	24
77	Microwave-assisted biomass pyrolysis polygeneration process using a scaled-up reactor: Product characterization, thermodynamic assessment and bio-hydrogen production. <i>Biomass and Bioenergy</i> , 2020, 139, 105651.	2.9	24
78	An MIP-based interval heuristic for the capacitated multi-level lot-sizing problem with setup times. <i>Annals of Operations Research</i> , 2012, 196, 635-650.	2.6	23
79	A comparative study of mechanisms of the adsorption of CO ₂ confined within graphene/MoS ₂ nanosheets: a DFT trend study. <i>Nanoscale Advances</i> , 2019, 1, 1442-1451.	2.2	22
80	Catalytic pyrolysis of linear low-density polyethylene using recycled coal ash: Kinetic study and environmental evaluation. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 2235-2246.	1.2	22
81	Distribution and modes of occurrence of heavy metals in opposed multi-burner coal-water-slurry gasification plants. <i>Fuel</i> , 2021, 303, 121163.	3.4	22
82	Screening of Metal Oxides for Hg ⁰ Capture. <i>Energy Procedia</i> , 2015, 75, 2421-2426.	1.8	21
83	An informative column generation and decomposition method for a production planning and facility location problem. <i>International Journal of Production Economics</i> , 2015, 170, 88-96.	5.1	21
84	A phosphotungstic acid-supported multifunctional organocatalyst containing 9-amino(9-deoxy)epi-cinchonidine and Brønsted acid and its application in asymmetric aldol reaction. <i>RSC Advances</i> , 2016, 6, 55894-55902.	1.7	21
85	Highly Efficient Sulfonic/Carboxylic Dual-Acid Synergistic Catalysis for Esterification Enabled by Sulfur-Rich Graphene Oxide. <i>ChemSusChem</i> , 2017, 10, 3352-3357.	3.6	21
86	A Branch-and-Price Algorithm for the Integrated Berth Allocation and Quay Crane Assignment Problem. <i>Transportation Science</i> , 2019, 53, 1427-1454.	2.6	21
87	Improvement of fuel sources and energy products flexibility in coal power plants via energy-cyber-physical-systems approach. <i>Applied Energy</i> , 2019, 254, 113554.	5.1	21
88	Integration of machine learning approaches for accelerated discovery of transition-metal dichalcogenides as Hg ⁰ sensing materials. <i>Applied Energy</i> , 2019, 254, 113651.	5.1	21
89	Investigation on the interactions among lignocellulosic constituents and minerals of biomass and their influences on co-firing. <i>Energy</i> , 2019, 179, 129-137.	4.5	21
90	Full-scale experimental study of methane emission in a loess-gravel capillary barrier cover under different seasons. <i>Waste Management</i> , 2020, 107, 54-65.	3.7	21

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91	Location assignment for outbound containers with adjusted weight proportion. Computers and Operations Research, 2014, 52, 84-93.	2.4	20
92	Characteristics and interactions between coal and carbonaceous wastes during co-combustion. Journal of the Energy Institute, 2017, 90, 12-20.	2.7	20
93	Microwave-assisted pyrolysis of bamboo coupled with reforming by activated carbon for the production of hydrogen-rich syngas. Energy Procedia, 2017, 142, 1640-1646.	1.8	20
94	Efficiency enhancement of organic solar cells enabled by interface engineering of sol-gel zinc oxide with an oxadiazole-based material. Organic Electronics, 2020, 76, 105483.	1.4	20
95	The influence of lignocellulose on biomass pyrolysis product distribution and economics via steady state process simulation. Journal of Analytical and Applied Pyrolysis, 2021, 158, 104968.	2.6	20
96	Advanced Automated Char Image Analysis Techniques. Energy & Fuels, 2006, 20, 1211-1219.	2.5	19
97	Integrated structure investigation in complex networks by label propagation. Physica A: Statistical Mechanics and Its Applications, 2016, 448, 68-80.	1.2	19
98	Exergetic, economic and carbon emission studies of bio-olefin production via indirect steam gasification process. Energy, 2019, 187, 115933.	4.5	19
99	Nanocarbon-based catalysts for esterification: Effect of carbon dimensionality and synergistic effect of the surface functional groups. Carbon, 2019, 147, 134-145.	5.4	19
100	Understanding the Effect of Sequential Deposition Processing for High-Efficient Organic Photovoltaics to Harvest Sunlight and Artificial Light. ACS Applied Materials & Interfaces, 2021, 13, 20405-20416.	4.0	19
101	Stabilized CO ₂ reforming of CH ₄ on modified Ni/Al ₂ O ₃ catalysts via in-situ K ₂ CO ₃ -enabled dynamic coke elimination reaction. Fuel, 2021, 298, 120599.	3.4	19
102	Low-crystalline transition metal oxide/hydroxide on MWCNT by Fenton-reaction-inspired green synthesis for lithium ion battery and OER electrocatalysis. Electrochimica Acta, 2021, 387, 138559.	2.6	19
103	A Burnout Prediction Model Based around Char Morphology. Energy & Fuels, 2006, 20, 1175-1183.	2.5	18
104	Mixed integer programming in production planning with backlogging and setup carryover: modeling and algorithms. Discrete Event Dynamic Systems: Theory and Applications, 2013, 23, 211-239.	0.6	18
105	Analytics Branching and Selection for the Capacitated Multi-Item Lot Sizing Problem with Nonidentical Machines. INFORMS Journal on Computing, 2018, 30, 236-258.	1.0	18
106	Application of fractal geometry to atomization process. Chemical Engineering Journal, 2000, 78, 193-197.	6.6	17
107	Improving the efficiency of "Clean-In-Place"™ procedures using a four-lobed swirl pipe: A numerical investigation. Computers and Fluids, 2015, 108, 116-128.	1.3	17
108	The green capacitated multi-item lot sizing problem with parallel machines. Computers and Operations Research, 2018, 98, 149-164.	2.4	17

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109	Aqueous asymmetric aldol reaction catalyzed by nanomagnetic solid acid $\text{SO}_4^{2-}/\text{Zr}(\text{OH})_4/\text{Fe}_3\text{O}_4$. Chinese Journal of Catalysis, 2015, 36, 425-431.	6.9	16
110	Recycling oriented vertical vibratory separation of copper and polypropylene particles. Powder Technology, 2016, 301, 694-700.	2.1	16
111	Mechanism of Hg^0 and O_2 Interaction on the IrO_2 (110) Surface: A Density Functional Theory Study. Energy & Fuels, 2019, 33, 1354-1362.	2.5	16
112	Catalytic oxidation of Hg^0 with O_2 induced by synergistic coupling of CeO_2 and MoO_3 . Journal of Hazardous Materials, 2020, 381, 121037.	6.5	16
113	Closing the active carbon cycle: Regeneration of spent activated carbon from a wastewater treatment facility for resource optimization. Chemical Engineering and Processing: Process Intensification, 2020, 150, 107878.	1.8	16
114	Influence of co-processing of coal and oil shale on combustion characteristics, kinetics and ash fusion behaviour. Energy, 2021, 216, 119229.	4.5	16
115	On the equivalence of strong formulations for capacitated multi-level lot sizing problems with setup times. Journal of Global Optimization, 2012, 53, 615-639.	1.1	15
116	Esterification of fatty acids from waste cooking oil to biodiesel over a sulfonated resin/PVA composite. Catalysis Science and Technology, 2016, 6, 5590-5598.	2.1	15
117	Evolution prediction of multi-scale information diffusion dynamics. Knowledge-Based Systems, 2016, 113, 186-198.	4.0	15
118	Enhancing the Reactivity of Petroleum Coke in CO_2 via Co-Processing with Selected Carbonaceous Materials. Energy & Fuels, 2017, 31, 1555-1563.	2.5	15
119	Co-regulation of dispersion, exposure and defect sites on CeO_2 (111) surface for catalytic oxidation of Hg^0 . Journal of Hazardous Materials, 2022, 424, 126566.	6.5	15
120	Power Generation by Flat-Tube Solid Oxide Fuel Cells with Enhanced Internal Reforming of Methanol. ACS Sustainable Chemistry and Engineering, 2022, 10, 6276-6288.	3.2	15
121	A Lagrangian relaxation-based method and models evaluation for multi-level lot sizing problems with backorders. Computers and Operations Research, 2013, 40, 1852-1863.	2.4	14
122	Synthesis of Bio-Dimethyl Ether Based on Carbon Dioxide-Enhanced Gasification of Biomass: Process Simulation Using Aspen Plus. Energy Technology, 2016, 4, 526-535.	1.8	14
123	A study of the growth-time effect on graphene layer number based on a Cu/Ni bilayer catalyst system. RSC Advances, 2016, 6, 23956-23960.	1.7	14
124	CO_2 gasification and pyrolysis reactivity evaluation of oil shale. Energy Procedia, 2019, 158, 1694-1699.	1.8	14
125	Automated image analysis techniques to characterise pulverised coal particles and predict combustion char morphology. Fuel, 2020, 259, 116022.	3.4	14
126	Kinetic and thermodynamic investigations of CO_2 gasification of coal chars prepared via conventional and microwave pyrolysis. International Journal of Coal Science and Technology, 2020, 7, 422-432.	2.7	14

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127	Miscanthus as a carbon precursor for graphene oxide: A possibility influenced by pyrolysis temperature. <i>Bioresource Technology</i> , 2021, 331, 124934.	4.8	14
128	The integration of hydrogenation and carbon capture utilisation and storage technology: A potential low-carbon approach to chemical synthesis in China. <i>International Journal of Energy Research</i> , 2021, 45, 19789-19818.	2.2	14
129	Highly active Ni/Al ₂ O ₃ catalyst for CO ₂ methanation by the decomposition of Ni-MOF@Al ₂ O ₃ precursor via cold plasma. <i>Applied Energy</i> , 2022, 315, 119036.	5.1	14
130	Rational tuning of intermolecular and intramolecular interactions enabling high-efficiency indoor organic photovoltaics. <i>Nano Energy</i> , 2022, 99, 107414.	8.2	14
131	MIP models and a hybrid method for the capacitated air-cargo network planning and scheduling problems. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017, 103, 158-173.	3.7	13
132	Predicting the evolution of complex networks via similarity dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 465, 662-672.	1.2	13
133	Theoretical insights of catalytic oxidation of Hg ⁰ on g-C ₃ N ₄ -supported Fe/Co/Ni-based bi-metallic catalysts using O ₂ in coal-fired flue gas as the oxidant. <i>Fuel</i> , 2021, 306, 121593.	3.4	13
134	The application of pneumatic jiggling in the recovery of metallic fraction from shredded printed wiring boards. <i>Waste Management and Research</i> , 2015, 33, 785-793.	2.2	12
135	Highly efficient steam reforming of ethanol (SRE) over CeO _x grown on the nano Ni x Mg y O matrix: H ₂ production under a high GHSV condition. <i>International Journal of Energy Research</i> , 2019, 43, 3823-3836.	2.2	12
136	Mechanistic and Experimental Study of the Formation of MoS ₂ /HKUST-1 Core-Shell Composites on MoS ₂ Quantum Dots with an Enhanced CO ₂ Adsorption Capacity. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5808-5817.	1.8	12
137	Large eddy simulation and Reynolds-averaged Navier-Stokes based modelling of geometrically induced swirl flows applied for the better understanding of Clean-In-Place procedures. <i>Food and Bioprocess Processing</i> , 2017, 104, 77-93.	1.8	11
138	Density functional theory study of the adsorption of elemental mercury on a 1T-MoS ₂ monolayer. <i>Journal of Zhejiang University: Science A</i> , 2018, 19, 60-67.	1.3	10
139	DFT study of the oxidation of Hg ⁰ by O ₂ on an Mn-doped buckled g-C ₃ N ₄ catalyst. <i>Current Applied Physics</i> , 2022, 40, 83-89.	1.1	10
140	A solution to achieve good reusability of MNPs Fe ₃ O ₄ -supported (S)-diphenylprolinoltrimethylsilyl ether catalysts in asymmetric Michael reactions. <i>RSC Advances</i> , 2016, 6, 25246-25254.	1.7	9
141	Bipolarly stacked electrolyser for energy and space efficient fabrication of supercapacitor electrodes. <i>Journal of Power Sources</i> , 2016, 307, 208-213.	4.0	9
142	Biomass constituents™ interactions with coal during co-firing. <i>Energy Procedia</i> , 2019, 158, 1640-1645.	1.8	9
143	Effects of Microwave-enhanced Pretreatment on Oil Shale Milling Performance. <i>Energy Procedia</i> , 2019, 158, 1712-1717.	1.8	9
144	A simple and rapid in situ method for measuring landfill gas emissions and methane oxidation rates in landfill covers. <i>Waste Management and Research</i> , 2020, 38, 588-593.	2.2	9

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145	Dantzig-Wolfe decomposition for the facility location and production planning problem. <i>Computers and Operations Research</i> , 2020, 124, 105068.	2.4	9
146	In-Situ Testing of Methane Emissions from Landfills Using Laser Absorption Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2117.	1.3	9
147	Highly efficient dye sensitized solar cells based on a novel ruthenium sensitizer. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2346-2350.	1.1	8
148	Microwave Induced Pyrolysis of Biomass. <i>Applied Mechanics and Materials</i> , 0, 319, 127-133.	0.2	8
149	Investigation on breakage behaviour of oil shale with high grinding resistance: A comparison between microwave and conventional thermal processing. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 151, 107909.	1.8	8
150	Analysis of environmental impacts and energy derivation potential of biomass pyrolysis via Piper diagram. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 154, 104995.	2.6	8
151	DFT simulation-based screening of single transition metals supported on g-C ₃ N ₄ for the catalytic oxidation of Hg ⁰ . <i>Fuel</i> , 2021, 305, 121456.	3.4	8
152	A novel mixed integer programming formulation and progressively stochastic search for capacitated lot sizing. <i>Journal of Systems Science and Systems Engineering</i> , 2011, 20, 173-192.	0.8	7
153	Simultaneous Removal of SO ₂ and NO _x in Flue Gas at Power Stations over a Cu/Na-13X Zeolite Catalyst. <i>Advanced Materials Research</i> , 0, 650, 125-129.	0.3	7
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