Andrei Veksha

List of Publications by Year in descending order

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100 papers

3,592 citations

32 h-index 54 g-index

100 all docs

100 docs citations

100 times ranked 3093 citing authors

#	Article	IF	CITATIONS
1	Enhanced photocatalytic degradation of bisphenol A with Ag-decorated S-doped g-C3N4 under solar irradiation: Performance and mechanistic studies. Chemical Engineering Journal, 2018, 333, 739-749.	12.7	209
2	Fate and distribution of heavy metals during thermal processing of sewage sludge. Fuel, 2018, 226, 721-744.	6.4	203
3	Insights into the thermolytic transformation of lignocellulosic biomass waste to redox-active carbocatalyst: Durability of surface active sites. Applied Catalysis B: Environmental, 2018, 233, 120-129.	20.2	169
4	Chemical recycling of plastic waste for sustainable material management: A prospective review on catalysts and processes. Renewable and Sustainable Energy Reviews, 2022, 154, 111866.	16.4	110
5	Processing of flexible plastic packaging waste into pyrolysis oil and multi-walled carbon nanotubes for electrocatalytic oxygen reduction. Journal of Hazardous Materials, 2020, 387, 121256.	12.4	103
6	Activated multi-walled carbon nanotubes decorated with zero valent nickel nanoparticles for arsenic, cadmium and lead adsorption from wastewater in a batch and continuous flow modes. Journal of Hazardous Materials, 2022, 423, 126993.	12.4	96
7	Removal and biodegradation of naphthenic acids by biochar and attached environmental biofilms in the presence of co-contaminating metals. Bioresource Technology, 2016, 216, 352-361.	9.6	90
8	Effects of sewage sludge organic and inorganic constituents on the properties of pyrolysis products. Energy Conversion and Management, 2019, 196, 1410-1419.	9.2	89
9	Insights into the speciation of heavy metals during pyrolysis of industrial sludge. Science of the Total Environment, 2019, 691, 232-242.	8.0	86
10	Environmental impact assessment of converting flexible packaging plastic waste to pyrolysis oil and multi-walled carbon nanotubes. Journal of Hazardous Materials, 2020, 390, 121449.	12.4	86
11	Taguchi optimization design of diameter-controlled synthesis of multi walled carbon nanotubes for the adsorption of Pb(II) and Ni(II) from chemical industry wastewater. Chemosphere, 2021, 266, 128937.	8.2	83
12	Catalytically active nitrogen-doped porous carbon derived from biowastes for organics removal via peroxymonosulfate activation. Chemical Engineering Journal, 2019, 374, 947-957.	12.7	82
13	A hot syngas purification system integrated with downdraft gasification of municipal solid waste. Applied Energy, 2019, 237, 227-240.	10.1	76
14	The influence of porosity and surface oxygen groups of peat-based activated carbons on benzene adsorption from dry and humid air. Carbon, 2009, 47, 2371-2378.	10.3	68
15	Conversion of non-condensable pyrolysis gases from plastics into carbon nanomaterials: Effects of feedstock and temperature. Journal of Analytical and Applied Pyrolysis, 2017, 124, 16-24.	5 . 5	64
16	Life cycle assessment of plastic grocery bags and their alternatives in cities with confined waste management structure: A Singapore case study. Journal of Cleaner Production, 2021, 278, 123956.	9.3	63
17	Upgrading of non-condensable pyrolysis gas from mixed plastics through catalytic decomposition and dechlorination. Fuel Processing Technology, 2018, 170, 13-20.	7.2	59
18	Plastic derived carbon nanotubes for electrocatalytic oxygen reduction reaction: Effects of plastic feedstock and synthesis temperature. Electrochemistry Communications, 2019, 101, 11-18.	4.7	59

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19	Pyrolysis derived char from municipal and industrial sludge: Impact of organic decomposition and inorganic accumulation on the fuel characteristics of char. Waste Management, 2019, 83, 131-141.	7.4	59
20	In situ grown metallic nickel from X–Ni (X=La, Mg, Sr) oxides for converting plastics into carbon nanotubes: Influence of metal–support interaction. Journal of Cleaner Production, 2020, 258, 120633.	9.3	58
21	Enhanced activation of peroxydisulfate by CuO decorated on hexagonal boron nitride for bisphenol A removal. Chemical Engineering Journal, 2020, 393, 124714.	12.7	55
22	Poisoning effects of H2S and HCl on the naphthalene steam reforming and water-gas shift activities of Ni and Fe catalysts. Fuel, 2019, 241, 1008-1018.	6.4	54
23	Carbon based copper(II) phthalocyanine catalysts for electrochemical CO2 reduction: Effect of carbon support on electrocatalytic activity. Carbon, 2020, 168, 245-253.	10.3	53
24	Thermodynamic analyses of synthetic natural gas production via municipal solid waste gasification, high-temperature water electrolysis and methanation. Energy Conversion and Management, 2019, 202, 112160.	9.2	46
25	Pyrolysis of wood to biochar: Increasing yield while maintaining microporosity. Bioresource Technology, 2014, 153, 173-179.	9.6	41
26	Evaluation of the cycling performance of a sorbent for H2S removal and simulation of desulfurization-regeneration processes. Chemical Engineering Journal, 2017, 326, 1255-1265.	12.7	38
27	Application of system dynamics modeling for evaluation of different recycling scenarios in Singapore. Journal of Material Cycles and Waste Management, 2017, 19, 1177-1185.	3.0	36
28	Ni-Zn-based nanocomposite loaded on cordierite mullite ceramic for syngas desulfurization: Performance evaluation and regeneration studies. Chemical Engineering Journal, 2018, 351, 230-239.	12.7	36
29	Influence of surface morphology on the performance of nanostructured ZnO-loaded ceramic honeycomb for syngas desulfurization. Fuel, 2018, 211, 591-599.	6.4	35
30	Desulfurization sorbents for green and clean coal utilization and downstream toxics reduction: A review and perspectives. Journal of Cleaner Production, 2020, 273, 123080.	9.3	35
31	Ordered mesoporous Zn-based supported sorbent synthesized by a new method for high-efficiency desulfurization of hot coal gas. Chemical Engineering Journal, 2018, 353, 273-287.	12.7	33
32	Sal wood sawdust derived highly mesoporous carbon as prospective electrode material for vanadium redox flow batteries. Journal of Electroanalytical Chemistry, 2019, 834, 94-100.	3.8	33
33	Enhancing biochar yield by co-pyrolysis of bio-oil with biomass: Impacts of potassium hydroxide addition and air pretreatment prior to co-pyrolysis. Bioresource Technology, 2014, 171, 88-94.	9.6	32
34	Catalytic processing of non-condensable pyrolysis gas from plastics: Effects of calcium supports on nickel-catalyzed decomposition of hydrocarbons and HCl sorption. Chemical Engineering Science, 2018, 189, 311-319.	3.8	32
35	Environmental footprint of voltammetric sensors based on screen-printed electrodes: An assessment towards "green―sensor manufacturing. Chemosphere, 2021, 278, 130462.	8.2	32
36	Microwave effects on the structure of CeO2-doped zinc oxide sorbents for H2S removal. Fuel, 2015, 146, 56-59.	6.4	31

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37	Catalytic activities and resistance to HCl poisoning of Ni-based catalysts during steam reforming of naphthalene. Applied Catalysis A: General, 2018, 557, 25-38.	4.3	29
38	Barium aluminate improved iron ore for the chemical looping combustion of syngas. Applied Energy, 2020, 272, 115236.	10.1	29
39	Analytical assessment of tar generated during gasification of municipal solid waste: Distribution of GC–MS detectable tar compounds, undetectable tar residues and inorganic impurities. Fuel, 2020, 268, 117348.	6.4	29
40	Cobalt and nitrogen co-doped porous carbon/carbon nanotube hybrids anchored with nickel nanoparticles as high-performance electrocatalysts for oxygen reduction reactions. Nanoscale, 2020, 12, 13028-13033.	5.6	29
41	Distribution and modeling of tar compounds produced during downdraft gasification of municipal solid waste. Renewable Energy, 2019, 136, 1294-1303.	8.9	27
42	Rational design of electrospun nanofibers for gas purification: Principles, opportunities, and challenges. Chemical Engineering Journal, 2022, 446, 137099.	12.7	27
43	The removal of methyl orange from aqueous solution by biochar and activated carbon under microwave irradiation and in the presence of hydrogen peroxide. Journal of Environmental Chemical Engineering, 2015, 3, 1452-1458.	6.7	26
44	Ba–Al-decorated iron ore as bifunctional oxygen carrier and HCl sorbent for chemical looping combustion of syngas. Combustion and Flame, 2021, 223, 230-242.	5.2	26
45	Flexible packaging plastic waste – environmental implications, management solutions, and the way forward. Current Opinion in Chemical Engineering, 2021, 32, 100684.	7.8	26
46	Multiwall carbon nanotubes derived from plastic packaging waste as a highâ€performance electrode material for supercapacitors. International Journal of Energy Research, 2021, 45, 19611-19622.	4.5	26
47	Graphene-like carbon nanosheets grown over alkali-earth metal oxides: Effects of chemical composition and physico-chemical properties. Carbon, 2020, 159, 378-389.	10.3	25
48	Mesoporous Zn-Fe-based binary metal oxide sorbent with sheet-shaped morphology: Synthesis and application for highly efficient desulfurization of hot coal gas. Chemical Engineering Journal, 2020, 389, 123750.	12.7	25
49	Heteroatom doped carbon nanosheets from waste tires as electrode materials for electrocatalytic oxygen reduction reaction: Effect of synthesis techniques on properties and activity. Carbon, 2020, 167, 104-113.	10.3	25
50	Technical and environmental assessment of laboratory scale approach for sustainable management of marine plastic litter. Journal of Hazardous Materials, 2022, 421, 126717.	12.4	25
51	Activation of Aspen Wood with Carbon Dioxide and Phosphoric Acid for Removal of Total Organic Carbon from Oil Sands Produced Water: Increasing the Yield with Bio-Oil Recycling. Materials, 2016, 9, 20.	2.9	24
52	Insights into the single and binary adsorption of copper(II) and nickel(II) on hexagonal boron nitride: Performance and mechanistic studies. Journal of Environmental Chemical Engineering, 2019, 7, 102872.	6.7	24
53	High temperature slagging gasification of municipal solid waste with biomass charcoal as a greener auxiliary fuel. Journal of Hazardous Materials, 2022, 423, 127057.	12.4	24
54	Hot Coal Gas Desulfurization Using Regenerable ZnO/MCM41 Prepared via One-Step Hydrothermal Synthesis. Energy & Synthesis.	5.1	23

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55	Weakening the strong Fe-La interaction in A-site-deficient perovskite via Ni substitution to promote the thermocatalytic synthesis of carbon nanotubes from plastics. Journal of Hazardous Materials, 2021, 403, 123642.	12.4	23
56	Chemical looping combustion-adsorption of HCl-containing syngas using alkaline-earth coated iron ore composites for simultaneous purification and combustion enhancement. Chemical Engineering Journal, 2021, 417, 129226.	12.7	23
57	Upcycling of exhausted reverse osmosis membranes into value-added pyrolysis products and carbon dots. Journal of Hazardous Materials, 2021, 419, 126472.	12.4	23
58	In situ catalytic reforming of plastic pyrolysis vapors using MSW incineration ashes. Environmental Pollution, 2021, 276, 116681.	7. 5	22
59	Desulfurization of Hot Coal Gas over Regenerable Low-Cost Fe ₂ O ₃ /Mesoporous Al ₂ O ₃ Prepared by the Sol–Gel Method. Energy & Fuels, 2017, 31, 13921-13932.	5.1	21
60	New Way of Removing Hydrogen Sulfide at a High Temperature: Microwave Desulfurization Using an Iron-Based Sorbent Supported on Active Coke. Energy & Energy & 2017, 31, 4263-4272.	5.1	20
61	Conversion of Spent Coffee Beans to Electrode Material for Vanadium Redox Flow Batteries. Batteries, 2018, 4, 56.	4.5	20
62	A novel real-time monitoring and control system for waste-to-energy gasification process employing differential temperature profiling of a downdraft gasifier. Journal of Environmental Management, 2019, 234, 65-74.	7.8	20
63	Microwave heating motivated performance promotion and kinetic study of iron oxide sorbent for coal gas desulfurization. Fuel, 2020, 267, 117215.	6.4	20
64	Regenerable Co-ZnO-based nanocomposites for high-temperature syngas desulfurization. Fuel Processing Technology, 2020, 201, 106344.	7.2	20
65	Support effects on thermocatalytic pyrolysis-reforming of polyethylene over impregnated Ni catalysts. Applied Catalysis A: General, 2021, 622, 118222.	4.3	20
66	Upgrading waste plastic derived pyrolysis gas via chemical looping cracking–gasification using Ni–Fe–Al redox catalysts. Chemical Engineering Journal, 2022, 438, 135580.	12.7	20
67	Nickel-based catalysts for steam reforming of naphthalene utilizing gasification slag from municipal solid waste as a support. Fuel, 2019, 254, 115561.	6.4	19
68	Synthesis of CaCr2O4/carbon nanoplatelets from non-condensable pyrolysis gas of plastics for oxygen reduction reaction and charge storage. Journal of Electroanalytical Chemistry, 2019, 849, 113368.	3.8	18
69	Iron ore modified with alkaline earth metals for the chemical looping combustion of municipal solid waste derived syngas. Journal of Cleaner Production, 2021, 282, 124467.	9.3	18
70	Effective H2S control during chemical looping combustion by iron ore modified with alkaline earth metal oxides. Energy, 2021, 218, 119548.	8.8	17
71	Converting polyolefin plastics into few-walled carbon nanotubes via a tandem catalytic process: Importance of gas composition and system configuration. Journal of Hazardous Materials, 2022, 435, 128949.	12.4	17
72	The effects of temperature on the activation of peat char in the presence of high calcium content. Journal of Analytical and Applied Pyrolysis, 2008, 83, 131-136.	5 . 5	16

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73	Oxygen carriers from incineration bottom ash for chemical looping combustion of syngas: Effect of composition on combustion efficiency. Chemical Engineering Journal, 2021, 405, 127068.	12.7	16
74	In Situ Preparation and Regeneration Behaviors of Zinc Oxide/Red Clay Desulfurization Sorbents. Energy & Energy	5.1	15
75	Fe-assisted catalytic chemical vapor deposition of graphene-like carbon nanosheets over SrO. Carbon, 2021, 171, 444-454.	10.3	15
76	Advanced Ni tar reforming catalysts resistant to syngas impurities: Current knowledge, research gaps and future prospects. Fuel, 2022, 318, 123602.	6.4	15
77	Dual-functional witherite in improving chemical looping performance of iron ore and simultaneous adsorption of HCl in syngas at high temperature. Chemical Engineering Journal, 2021, 413, 127538.	12.7	14
78	Tailoring Fe2O3–Al2O3 catalyst structure and activity via hydrothermal synthesis for carbon nanotubes and hydrogen production from polyolefin plastics. Chemosphere, 2022, 297, 134148.	8.2	14
79	Few-walled carbon nanotubes derived from shoe waste plastics: Effect of feedstock composition on synthesis, properties and application as CO2 reduction electrodes. Journal of Cleaner Production, 2022, 356, 131868.	9.3	13
80	Structure Characteristics and Hot-Coal-Gas Desulfurization Properties of Zn-Based Sorbents Supported on Mesoporous Silica with Different Pore-Arrangement Patterns: A Comparison Study. Energy & Energy & Puels, 2021, 35, 2456-2467.	5.1	12
81	Insights into the effects of metal-ion doping on the structure and hot-coal-gas desulfurization properties of Zn-based sorbents supported on SBA-15. Fuel, 2022, 315, 123198.	6.4	12
82	Insights to the microwave effect in the preparation of sorbent for H2S removal: Desulfurization kinetics and characterization. Fuel, 2017, 203, 233-243.	6.4	11
83	Fe-Based Sorbent for Hot Coal Gas under Microwave Irradiation: Desulfurization Performance and Microwave Effects. Energy & Energy	5.1	11
84	Modulating local environment of Ni with W for synthesis of carbon nanotubes and hydrogen from plastics. Journal of Cleaner Production, 2022, 352, 131620.	9.3	11
85	Effect of alkali earth metal doping on the CuO/Al2O3 oxygen carrier agglomeration resistance during chemical looping combustion. Journal of Cleaner Production, 2022, 366, 132970.	9.3	11
86	Hydrogen bromide in syngas: Effects on tar reforming, water gas-shift activities and sintering of Ni-based catalysts. Applied Catalysis B: Environmental, 2021, 280, 119435.	20.2	9
87	Thermal behavior of Cu-Mg-Al-Ba/Sr bifunctional composites during chemical looping combustion and HCl adsorption of MSW syngas. Chemical Engineering Journal, 2022, 430, 132871.	12.7	8
88	Temperature-dependent synthesis of multi-walled carbon nanotubes and hydrogen from plastic waste over A-site-deficient perovskite La0.8Ni1-xCoxO3-δ. Chemosphere, 2022, 291, 132831.	8.2	8
89	Highly active and poison-tolerant nickel catalysts for tar reforming synthesized through controlled hydrothermal synthesis. Applied Catalysis A: General, 2020, 607, 117779.	4.3	7
90	Adsorption and Desorption Behavior of Benzene on Activated Carbons from Different Precursors in Dry and Humid Conditions. Journal of Chemical Engineering of Japan, 2012, 45, 387-394.	0.6	5

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91	Application of terpyridyl ligands to tune the optical and electrochemical properties of a conducting polymer. RSC Advances, 2018, 8, 29505-29512.	3.6	4
92	Polyterthiophenes Crossâ€Linked with Terpyridyl Metal Complexes for Molecular Architecture of Optically and Electrochemically Tunable Materials. ChemElectroChem, 2020, 7, 4453-4459.	3.4	4
93	Sorbents for high-temperature removal of alkali metals and HCl from municipal solid waste derived syngas. Fuel, 2022, 321, 124058.	6.4	4
94	The Effects of Washing Techniques on Thermal Combustion Properties of Sewage Sludge Chars. International Journal of Environmental Research, 2021, 15, 285-297.	2.3	3
95	Carbon nanosheet-carbon nanocage encapsulated Cu composite from chemical vapor deposition of real-world plastic waste for tailored CO2 conversion to various products. Applied Materials Today, 2021, 25, 101207.	4.3	3
96	Unravelling the significance of catalyst reduction stage for high tar reforming activity in the presence of syngas impurities. Applied Catalysis A: General, 2022, 642, 118711.	4.3	3
97	Preparation of mesoporous MCMâ€41 supported zinc sorbents by microwave inâ€situ oxidation for H 2 S removal in coal gas. Canadian Journal of Chemical Engineering, 2020, 98, 1729-1740.	1.7	2
98	Selective leaching of scandium and yttrium from red mud induced by hydrothermal treatment. Journal of Chemical Technology and Biotechnology, 2021, 96, 2620-2629.	3.2	1
99	Conversion of reverse osmosis membranes into metal-free carbocatalyst for electrochemical syngas production. Journal of CO2 Utilization, 2022, 58, 101908.	6.8	1
100	Benzene Adsorption from Dry and Humid Air onActivated Carbons from Japanese Cypress Wood Preparedby CO2 and K2CO3 Activation. International Journal of Chemical Engineering and Applications (IJCEA), 2012, , 1-5.	0.3	0