Yadollah Mortazavi

List of Publications by Year
in descending order

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Version: 2024-02-01

158 papers	5,597 citations	61945 43 h-index	106281 65 g-index
158 all docs	158 docs citations	158 times ranked	7083 citing authors

#	Article	IF	Citations
1	Enhanced NO 2 gas sensing performance of bare and Pd-loaded SnO 2 thick film sensors under UV-light irradiation at room temperature. Sensors and Actuators B: Chemical, 2016, 223, 429-439.	4.0	174
2	Asphaltene Adsorption onto Acidic/Basic Metal Oxide Nanoparticles toward in Situ Upgrading of Reservoir Oils by Nanotechnology. Langmuir, 2013, 29, 14135-14146.	1.6	165
3	Microporous titaniaâ€“silica nanocomposite catalyst-adsorbent for ultra-deep oxidative desulfurization. Applied Catalysis B: Environmental, 2016, 180, 65-77.	10.8	153
4	Fast and clean functionalization of carbon nanotubes by dielectric barrier discharge plasma in air compared to acid treatment. Carbon, 2010, 48, 1369-1379.	5.4	133
5	CeO2 doped SnO2 sensor selective to ethanol in presence of CO, LPG and CH4. Sensors and Actuators B: Chemical, 2005, 108, 172-176.	4.0	125
6	Highly active Fe2O3-doped TiO2 photocatalyst for degradation of trichloroethylene in air under UV and visible light irradiation: Experimental and computational studies. Applied Catalysis B: Environmental, 2015, 165, 209-221.	10.8	117
7	Low temperature CO and CH4 dual selective gas sensor using SnO2 quantum dots prepared by sonochemical method. Sensors and Actuators B: Chemical, 2010, 145, 7-12.	4.0	111
8	Microwave assisted fast synthesis of various ZnO morphologies for selective detection of CO, CH4 and ethanol. Sensors and Actuators B: Chemical, 2011, 156, 737-742.	4.0	108
9	Enhanced CO sensitivity and selectivity of gold nanoparticles-doped SnO2 sensor in presence of propane and methane. Sensors and Actuators B: Chemical, 2008, 133, 352-356.	4.0	107
10	Highly sensitive carbon nanotubesâ€“SnO2 nanocomposite sensor for acetone detection in diabetes mellitus breath. Sensors and Actuators B: Chemical, 2014, 205, 261-267.	4.0	104
11	Stability and thermal conductivity of nanofluids of tin dioxide synthesized via microwave-induced combustion route. Chemical Engineering Journal, 2010, 156, 471-478.	6.6	97
12	Synergetic effects of Y-zeolite and amorphous silica-alumina as main FCC catalyst components on triisopropylbenzene cracking and coke formation. Fuel Processing Technology, 2009, 90, 171-179.	3.7	90
13	Cerium oxide/SnO2-based semiconductor gas sensors with improved sensitivity to CO. Sensors and Actuators B: Chemical, 2001, 80, 267-271.	4.0	88
14	Ultra-deep adsorptive desulfurization of a model diesel fuel on regenerable Niâ€“Cu/Î³-Al2O3 at low temperatures in absence of hydrogen. Journal of Hazardous Materials, 2014, 271, 120-130.	6.5	88
15	Nanostructured SnO2â€“ZnO sensors: Highly sensitive and selective to ethanol. Sensors and Actuators B: Chemical, 2011, 160, 1298-1303.	4.0	86
16	Single-wall carbon nanotubes synthesized using organic additives to Coâ€“Mo catalysts supported on nanoporous MgO. Nanotechnology, 2007, 18, 315605.	1.3	80
17	Enhanced pyrolysis and oxidation of asphaltenes adsorbed onto transition metal oxides nanoparticles towards advanced in-situ combustion EOR processes by nanotechnology. Applied Catalysis A: General, 2014, 477, 159-171.	2.2	76
18	Modification of single wall carbon nanotubes (SWNT) for hydrogen storage. International Journal of Hydrogen Energy, 2010, 35, 9489-9495.	3.8	75

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19	Alkaline- and template-free hydrothermal synthesis of stable SnO2 nanoparticles and nanorods for CO and ethanol gas sensing. Sensors and Actuators B: Chemical, 2010, 151, 140-145.	4.0	75
20	CeO2 doped ZnO flower-like nanostructure sensor selective to ethanol in presence of CO and CH4. Sensors and Actuators B: Chemical, 2012, 169, 67-73.	4.0	75
21	Highly sensitive and selective ethanol sensor based on Sm2O3-loaded flower-like ZnO nanostructure. Sensors and Actuators B: Chemical, 2014, 191, 283-290.	4.0	75
22	A functionalized nano-structured cellulosic sorbent aerogel for oil spill cleanup: Synthesis and characterization. Journal of Hazardous Materials, 2019, 366, 229-239.	6.5	75
23	CO and ethanol dual selective sensor of Sm2O3-doped SnO2 nanoparticles synthesized by microwave-induced combustion. Sensors and Actuators B: Chemical, 2010, 144, 131-138.	4.0	72
24	Effects of Pd on enhancement of oxidation activity of LaBO3 (B=Mn, Fe, Co and Ni) pervoskite catalysts for pollution abatement from natural gas fueled vehicles. Applied Catalysis B: Environmental, 2011, 102, 62-70.	10.8	72
25	Preparation of highly active manganese oxides supported on functionalized MWNTs for low temperature NOx reduction with NH3. Applied Surface Science, 2013, 279, 250-259.	3.1	71
26	Cobalt supported on Graphene â€“ A promising novel Fischerâ€“Tropsch synthesis catalyst. Applied Catalysis A: General, 2015, 499, 188-196.	2.2	70
27	Highly sensitive and selective sensors to volatile organic compounds using MWCNTs/SnO2. Sensors and Actuators B: Chemical, 2012, 166-167, 150-155.	4.0	66
28	Fischerâ€“Tropsch synthesis over cobalt dispersed on carbon nanotubes-based supports and activated carbon. Fuel Processing Technology, 2009, 90, 1214-1219.	3.7	61
29	Ceria-doped SnO2 sensor highly selective to ethanol in humid air. Sensors and Actuators B: Chemical, 2008, 130, 625-629.	4.0	60
30	Hydrothermal gasification of glucose using Raney nickel and homogeneous organometallic catalysts. Fuel Processing Technology, 2009, 90, 145-151.	3.7	59
31	Microwave-induced combustion process variables for MgO nanoparticle synthesis using polyethylene glycol and sorbitol. Journal of the European Ceramic Society, 2009, 29, 1061-1068.	2.8	59
32	Synergetic effects of plasma and metal oxide catalysts on diesel soot oxidation. Applied Catalysis B: Environmental, 2016, 182, 74-84.	10.8	57
33	Structural features of Na2WO4â€“MO /SiO2 catalysts in oxidative coupling of methane reaction. Catalysis Communications, 2008, 9, 960-965.	1.6	55
34	In2O3â€“ZnO nanocomposites: High sensor response and selectivity to ethanol. Sensors and Actuators B: Chemical, 2015, 212, 395-403.	4.0	55
35	Pd-doped LaCoO3 regenerative catalyst for automotive emissions control. Applied Catalysis B: Environmental, 2008, 83, 214-220.	10.8	53
36	Activity enhancement of Cu-doped ceria by reductive regeneration of CuOâ€“CeO2 catalyst for preferential oxidation of CO in H2-rich streams. Chemical Engineering Journal, 2010, 164, 214-220.	6.6	53

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37	Sm2O3 doped-SnO2 nanoparticles, very selective and sensitive to volatile organic compounds. Sensors and Actuators B: Chemical, 2013, 181, 910-918.	4.0	53
38	Highly sensitive and selective Gd2O3-doped SnO2 ethanol sensors synthesized by a high temperature and pressure solvothermal method in a microreactor. Sensors and Actuators B: Chemical, 2016, 230, 130-139.	4.0	53
39	Effects of steaming-made changes in physicochemical properties of Y-zeolite on cracking of bulky 1,3,5-triisopropylbenzene and coke formation. Fuel Processing Technology, 2009, 90, 1226-1233.	3.7	51
40	Highly enhanced response and selectivity of electrospun ZnO-doped SnO2 sensors to ethanol and CO in presence of CH4. Sensors and Actuators B: Chemical, 2013, 184, 196-204.	4.0	51
41	Performance of CaX Zeolite for Separation of C₂H₆, C₂H₄, and CH₄by Adsorption Process; Capacity, Selectivity, and Dynamic Adsorption Measurements. Separation Science and Technology, 2010, 46, 349-355.	1.3	49
42	Effects of excess manganese in lanthanum manganite perovskite on lowering oxidation light-off temperature for automotive exhaust gas pollutants. Chemical Engineering Journal, 2011, 169, 282-289.	6.6	48
43	Effects of alumina phases as nickel supports on deep reactive adsorption of (4,6-dimethyl) dibenzothiophene: Comparison between Î³, Î´, and Î¸-alumina. Applied Catalysis B: Environmental, 2016, 180, 312-323.	10.8	47
44	The sensing behaviour of metal oxides (ZnO, CuO and Sm2O3) doped-SnO2 for detection of low concentrations of chlorinated volatile organic compounds. Sensors and Actuators B: Chemical, 2013, 181, 637-643.	4.0	42
45	Highly Stable and Selective Non-Enzymatic Glucose Biosensor Using Carbon Nanotubes Decorated by Fe3O4Nanoparticles. Journal of the Electrochemical Society, 2014, 161, B19-B25.	1.3	42
46	Enhanced methanol electro-oxidation activity of Pt/MWCNTs electro-catalyst using manganese oxide deposited on MWCNTs. Electrochimica Acta, 2014, 147, 192-200.	2.6	42
47	Ru promoted cobalt catalyst on Î³-Al2O3: Influence of different catalyst preparation method and Ru loadings on Fischerâ€“Tropsch reaction and kinetics. Applied Surface Science, 2014, 313, 183-195.	3.1	42
48	Atomic layer deposited Co/Î³-Al2O3 catalyst with enhanced cobalt dispersion and Fischerâ€“Tropsch synthesis activity and selectivity. Applied Catalysis A: General, 2016, 511, 31-46.	2.2	42
49	Enormous enhancement of Pt/SnO2 sensors response and selectivity by their reduction, to CO in automotive exhaust gas pollutants including CO, NOx and C3H8. Applied Surface Science, 2021, 546, 149120.	3.1	42
50	A Glucose Biosensor Based on Glucose Oxidase Immobilized on ZnO/Cu₂O Graphene Oxide Nanocomposite Electrode. Journal of the Electrochemical Society, 2014, 161, B81-B87.	1.3	41
51	Apple â€“ biomorphic synthesis of porous ZnO nanostructures for glucose direct electrochemical biosensor. Current Applied Physics, 2012, 12, 1033-1038.	1.1	40
52	Effect of citric acid concentration as emulsifier on perovskite phase formation of nanoâ€sized SrMnO₃ and SrCoO₃ samples. Crystal Research and Technology, 2010, 45, 1064-1068.	0.6	38
53	Highly selective Pt/SnO2 sensor to propane or methane in presence of CO and ethanol, using gold nanoparticles on Fe2O3 catalytic filter. Sensors and Actuators B: Chemical, 2010, 147, 400-405.	4.0	38
54	The effects of excess manganese in nano-size lanthanum manganite perovskite on enhancement of trichloroethylene oxidation activity. Chemical Engineering Journal, 2013, 215-216, 827-837.	6.6	38

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55	Catalytic evaluation of promoted CeO_2-ZrO_2 by transition, alkali, and alkaline-earth metal oxides for diesel soot oxidation. Journal of Environmental Sciences, 2013, 25, 2498-2506.	3.2	37
56	Enhanced triisopropylbenzene cracking and suppressed coking on tailored composite of Y-zeolite/amorphous silicaâ€“alumina catalyst. Journal of Industrial and Engineering Chemistry, 2014, 20, 3037-3045.	2.9	37
57	Dual selective Pt/SnO_2 sensor to CO and propane in exhaust gases of gasoline engines using Pt/$LaFeO_3$ filter. Sensors and Actuators B: Chemical, 2015, 206, 617-623.	4.0	37
58	Stability and catalytic performance of vanadia supported on nanostructured titania catalyst in oxidative dehydrogenation of propane. Applied Surface Science, 2014, 298, 26-35.	3.1	35
59	Nano-ceriaâ€“zirconia promoter effects on enhanced coke combustion and oxidation of CO formed in regeneration of silicaâ€“alumina coked during cracking of triisopropylbenzene. Applied Catalysis A: General, 2009, 353, 271-281.	2.2	34
60	Microemulsion synthesized silica/ZnO stable core/shell sensors highly selective to ethanol with minimum sensitivity to humidity. Sensors and Actuators B: Chemical, 2017, 238, 1070-1083.	4.0	34
61	Dynamics of <mml:math altimg="si35.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	1.9	33
62	Enhancement of cobalt catalyst stability in Fischerâ€“Tropsch synthesis using graphene nanosheets as catalyst support. Chemical Engineering Research and Design, 2015, 104, 713-722.	2.7	33
63	Highly sensitive gallia-SnO_2 nanocomposite sensors to CO and ethanol in presence of methane. Sensors and Actuators B: Chemical, 2013, 188, 45-52.	4.0	32
64	Vanadium oxide decorated carbon nanotubes as a promising support of Pt nanoparticles for methanol electro-oxidation reaction. Journal of Colloid and Interface Science, 2013, 393, 291-299.	5.0	31
65	Facile surface functionalization of multiwalled carbon nanotubes by soft dielectric barrier discharge plasma: Generate compatible interface for lipase immobilization. Biochemical Engineering Journal, 2014, 90, 16-26.	1.8	31
66	Lowering methane and raising distillates yields in Fischerâ€“Tropsch synthesis by using promoted and unpromoted cobalt catalysts in a dual bed reactor. Fuel Processing Technology, 2006, 87, 641-647.	3.7	30
67	A novel continuous process for synthesis of carbon nanotubes using iron floating catalyst and MgO particles for CVD of methane in a fluidized bed reactor. Applied Surface Science, 2010, 256, 2769-2774.	3.1	30
68	A hydrophobic/oleophilic chitosan-based sorbent: Toward an effective oil spill remediation technology. Journal of Environmental Chemical Engineering, 2019, 7, 103340.	3.3	30
69	Oxygen sensor with solid-state CeO_2â€“ZrO_2â€“TiO_2 reference. Sensors and Actuators B: Chemical, 2005, 108, 341-345.	4.0	29
70	Tube fitted bulk monolithic catalyst as novel structured reactor for gasâ€“solid reactions. Applied Catalysis A: General, 2010, 385, 214-223.	2.2	29
71	Artificial intelligence modeling of DME conversion to gasoline and light olefins over modified nano ZSM-5 catalysts. Fuel, 2016, 179, 79-86.	3.4	29
72	Comparative study of the two-zone fluidized-bed reactor and the fluidized-bed reactor for oxidative coupling of methane over Mn/Na_2WO_4/SiO_2 catalyst. Fuel Processing Technology, 2009, 90, 1319-1325.	3.7	28

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73	Oxidative coupling of methane over (Na2WO4+Mn or Ce)/SiO2 catalysts: In situ measurement of electrical conductivity. Journal of Natural Gas Chemistry, 2010, 19, 35-42.	1.8	28
74	The role of tin-promoted Pd/MWNTs via the management of carbonaceous species in selective hydrogenation of high concentration acetylene. Applied Surface Science, 2012, 263, 513-522.	3.1	28
75	Coupled Metal Oxide-Doped Pt/SnO₂Semiconductor and Yittria-Stabilized Zirconia Electrochemical Sensors for Detection of VOCs. Journal of the Electrochemical Society, 2013, 160, B218-B224.	1.3	28
76	Strong effects of gallia on structure and selective responses of Ga2O3â€“In2O3 nanocomposite sensors to either ethanol, CO or CH4. Sensors and Actuators B: Chemical, 2015, 220, 590-599.	4.0	28
77	Functionalized MWCNTs effects on dramatic enhancement of MWCNTs/SnO 2 nanocomposite gas sensing properties at low temperatures. Sensors and Actuators B: Chemical, 2016, 223, 252-260.	4.0	28
78	Rapid and clean amine functionalization of carbon nanotubes in a dielectric barrier discharge reactor for biosensor development. Electrochimica Acta, 2014, 115, 378-385.	2.6	27
79	Enhanced catalytic performance of Au/CuOâ€“ZnO catalysts containing low CuO content for preferential oxidation of carbon monoxide in hydrogen-rich streams for PEMFC. International Journal of Hydrogen Energy, 2014, 39, 2056-2066.	3.8	27
80	Preferential chemical vapor deposition of ruthenium on cobalt with highly enhanced activity and selectivity for Fischerâ€“Tropsch synthesis. Applied Catalysis A: General, 2014, 470, 221-231.	2.2	25
81	A simple method for blocking defects in zeolite membranes. Journal of Membrane Science, 2015, 489, 270-274.	4.1	25
82	Galliaâ€“ZnO nanohybrid sensors with dramatically higher sensitivity to ethanol in presence of CO, methane and VOCs. Sensors and Actuators B: Chemical, 2016, 223, 576-585.	4.0	25
83	Highly selective sensor to CH4 in presence of CO and ethanol using LaCoO3 perovskite filter with Pt/SnO2. Sensors and Actuators B: Chemical, 2006, 117, 420-425.	4.0	24
84	Plasma Functionalization of MWCNTs in He Followed by NH₃ Treatment and its Application in PMMA Based Nanocomposites. Plasma Processes and Polymers, 2010, 7, 1001-1009.	1.6	24
85	Palladiumâ€“Tin nanocatalysts in high concentration acetylene hydrogenation: A novel deactivation mechanism. Fuel Processing Technology, 2014, 120, 113-122.	3.7	24
86	A comparison of effects of plasma and acid functionalizations on structure and electrical property of multi-wall carbon nanotubes. Applied Surface Science, 2014, 295, 66-70.	3.1	24
87	H₂O/air plasma-functionalized carbon nanotubes decorated with MnO₂ for glucose sensing. RSC Advances, 2016, 6, 31807-31815.	1.7	24
88	PECVD-growth of carbon nanotubes using a modified tip-plate configuration. Carbon, 2004, 42, 1043-1047.	5.4	23
89	Fast photocatalytic degradation of congo red using CoO-doped Î²-Ga₂O₃ nanostructures. RSC Advances, 2014, 4, 33262-33268.	1.7	23
90	SnO 2 decorated SiO 2 chemical sensors: Enhanced sensing performance toward ethanol and acetone. Materials Science in Semiconductor Processing, 2017, 68, 87-96.	1.9	22

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91	Effect of partial substitution of lanthanum by strontium or bismuth on structural features of the lanthanum manganite nanoparticles as a catalyst for carbon monoxide oxidation. Catalysis Communications, 2012, 28, 32-37.	1.6	21
92	Understanding the mechanism of synthesis of Pt₃Co intermetallic nanoparticlesviapreferential chemical vapor deposition. Journal of Materials Chemistry A, 2017, 5, 24396-24406.	5.2	21
93	Short time synthesis of high quality carbon nanotubes with high rates by CVD of methane on continuously emerged iron nanoparticles. Applied Surface Science, 2011, 257, 9710-9716.	3.1	19
94	Effects of nanoadditives on stability of Pt/SnO2 as a sensing material for detection of CO. Sensors and Actuators B: Chemical, 2014, 191, 421-430.	4.0	19
95	Plasma Functionalized Multiwalled Carbon Nanotubes for Immobilization of Candida antarctica Lipase B: Production of Biodiesel from Methanolysis of Rapeseed Oil. Applied Biochemistry and Biotechnology, 2016, 178, 974-989.	1.4	19
96	Enhanced methanol electro-oxidation reaction on Pt-CoOx/MWCNTs hybrid electro-catalyst. Applied Surface Science, 2015, 335, 55-64.	3.1	18
97	Modeling the Growth of Carbon Nanotubes in a Floating Catalyst Reactor. Industrial & Engineering Chemistry Research, 2012, 51, 1143-1149.	1.8	17
98	Functionalization of silica membranes for CO2 separation. Separation and Purification Technology, 2020, 235, 116207.	3.9	17
99	Asphaltene Adsorption onto Carbonaceous Nanostructures. Energy & Fuels, 2020, 34, 211-224.	2.5	17
100	Detailed profiling of CNTs arrays along the growth window in a floating catalyst reactor. Applied Surface Science, 2009, 255, 7243-7250.	3.1	16
101	Novel Microwave-Induced Combustion Synthesis of SnO₂ Nanoparticles for Selective Sensing of CO Using Tin Chloride. Journal of Nanoscience and Nanotechnology, 2010, 10, 6003-6008.	0.9	16
102	Plasma thiol-functionalized carbon nanotubes decorated with gold nanoparticles for glucose biosensor. Sensors and Actuators B: Chemical, 2013, 188, 488-495.	4.0	16
103	High flux acetate functionalized silica membranes based on in-situ co-condensation for CO2/N2 separation. Journal of Membrane Science, 2016, 520, 574-582.	4.1	16
104	Fabrication of promoted TiO 2 nanotubes with superior catalytic activity against TiO 2 nanoparticles as the catalyst of oxi-desulfurization process. Journal of Industrial and Engineering Chemistry, 2016, 39, 66-76.	2.9	16
105	Characteristics and performance of urea modified Pt-MWCNTs for electro-oxidation of methanol. Applied Surface Science, 2019, 467-468, 335-344.	3.1	16
106	Functionalization of nitrogen-doped graphene quantum dot: A sustainable carbon-based catalyst for the production of cyclic carbonate from epoxide and CO2. Journal of Environmental Sciences, 2023, 126, 408-422.	3.2	16
107	Au-promoted Ce-Zr catalytic filter for Pt/SnO2 sensor to selectively detect methane and ethanol in the presence of interfering indoor gases. Materials Science in Semiconductor Processing, 2019, 90, 182-189.	1.9	15
108	A novel biosensor using entangled carbon nanotubes layer grown on an alumina substrate by CCVD of methane on FeOxâ€“MgO. Sensors and Actuators B: Chemical, 2009, 141, 526-531.	4.0	14

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109	Semiconducting metal oxides as electrode material for YSZ-based oxygen sensors. Sensors and Actuators B: Chemical, 2009, 139, 361-368.	4.0	14
110	Effect of mass transfer limitations on catalyst performance during reduction and carburization of iron based Fischer-Tropsch synthesis catalysts. Journal of Energy Chemistry, 2013, 22, 795-803.	7.1	14
111	Vapor-phase selective o-alkylation of catechol with methanol over lanthanum phosphate and its modified catalysts with Ti and Cs. Journal of Molecular Catalysis A, 2013, 372, 79-83.	4.8	14
112	Cumene cracking activity and enhanced regeneration of FCC catalysts comprising HY-zeolite and LaBO 3 (B = Co, Mn, and Fe) perovskites. Applied Catalysis A: General, 2014, 487, 26-35.	2.2	14
113	Effects of Combustion Catalyst Dispersed by a Novel Microemulsion Method as Fuel Additive on Diesel Engine Emissions, Performance, and Characteristics. Energy & Fuels, 2016, 30, 3392-3402.	2.5	14
114	Modeling of Stagewise Feeding in Fluidized Bed Reactor of Oxidative Coupling of Methane. Energy & Fuels, 2009, 23, 3745-3752.	2.5	13
115	Kinetic study of oxidative coupling of methane over Mn and/or W promoted Na2SO4/SiO2 catalysts. Journal of Natural Gas Chemistry, 2011, 20, 428-434.	1.8	13
116	Facile ultrasonic-assisted synthesis of SiO2/ZnO core/shell nanostructures: A selective ethanol sensor at low temperatures with enhanced recovery. Sensors and Actuators B: Chemical, 2022, 368, 132187.	4.0	13
117	Enhancement of distillate selectivity in Fischerâ€“Tropsch synthesis on a Co/SiO2 catalyst by hydrogen distribution along a fixed-bed reactor. Fuel Processing Technology, 2005, 86, 1253-1264.	3.7	12
118	Ultra-low Electrical and Rheological Percolation Thresholds in PMMA/Plasma-Functionalized CNTs Nanocomposites. Polymer-Plastics Technology and Engineering, 2014, 53, 1450-1455.	1.9	12
119	Functionalized open-ended vertically aligned carbon nanotube composite membranes with high salt rejection and enhanced slip flow for desalination. Separation and Purification Technology, 2021, 279, 119773.	3.9	12
120	Temperature-independent ceria- and Pt-doped nano-size TiO2 oxygen lambda sensor using Pt/SiO2 catalytic filter. Sensors and Actuators B: Chemical, 2008, 129, 47-52.	4.0	11
121	Comparative model analysis of the performance of tube fitted bulk monolithic catalyst with conventional pellet shapes for natural gas reforming. Journal of Industrial and Engineering Chemistry, 2011, 17, 767-776.	2.9	11
122	Rapid and enhanced functionalization of MWCNTs in a dielectric barrier discharge plasma in presence of diluted CO2. Applied Physics A: Materials Science and Processing, 2012, 106, 829-836.	1.1	11
123	On the dispersion of CNTs in polyamide 6 matrix via solution methods: assessment through electrical, rheological, thermal and morphological analyses. Polymer Bulletin, 2013, 70, 2387-2398.	1.7	11
124	SMFs-supported Pd nanocatalysts in selective acetylene hydrogenation: Pore structure-dependent deactivation mechanism. Journal of Energy Chemistry, 2013, 22, 717-725.	7.1	10
125	Studies on accelerated deactivation of ruthenium-promoted alumina-supported alkalized cobalt Fischer-Tropsch synthesis catalyst. Journal of Natural Gas Chemistry, 2011, 20, 65-71.	1.8	9
126	Atmospheric pressure atomic layer deposition of iron oxide nanolayer on the Al2O3/SiO2/Si substrate for mm-tall vertically aligned CNTs growth. Journal of Materials Science, 2020, 55, 13634-13657.	1.7	9

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127	Acetic acid effects on enhancement of growth rate and reduction of amorphous carbon deposition on CNT arrays along a growth window in a floating catalyst reactor. Applied Physics A: Materials Science and Processing, 2009, 97, 417-424.	1.1	8
128	Self-regenerative function of Cu in LaMnCu0.1O3 catalyst: Towards noble metal-free intelligent perovskites for automotive exhaust gas treatment. Applied Catalysis A: General, 2020, 602, 117702.	2.2	8
129	Tuning the band-gap and enhancing the trichloroethylene photocatalytic degradation activities of flower-like Ni-doped SnS2/SnO2 heterostructures by partial oxidation. Journal of Environmental Chemical Engineering, 2022, 10, 107793.	3.3	8
130	Titania-Supported Vanadium Oxide Synthesis by Atomic Layer Deposition and Its Application for Low-Temperature Oxidative Dehydrogenation of Propane. Catalysis Letters, 2020, 150, 2807-2822.	1.4	7
131	Modeling of Methane Oxidative Coupling under Periodic Operation by Neural Network. Chemical Engineering and Technology, 2005, 28, 581-586.	0.9	6
132	Characterization and Deactivation Study of Mixed Vanadium and Potassium Oxide Supported on Microemulsion-Mediated Titania Nanoparticles as Catalyst in Oxidative Dehydrogenation of Propane. International Journal of Chemical Reactor Engineering, 2015, 13, 9-19.	0.6	6
133	Combination of Plasma Functionalization and Phase Inversion Process Techniques for Efficient Dispersion of MWCNTs in Polyamide 6: Assessment through Morphological, Electrical, Rheological and Thermal Properties. Polymer-Plastics Technology and Engineering, 2015, 54, 632-638.	1.9	6
134	Cyclic molecular designed dispersion (CMDD) of Fe2O3 on CeO2 promoted by Au for preferential CO oxidation in hydrogen. International Journal of Hydrogen Energy, 2020, 45, 33598-33611.	3.8	6
135	Catalytic methane coupling under periodic operation. Canadian Journal of Chemical Engineering, 1996, 74, 683-694.	0.9	4
136	The effects of carrier gas and liquid feed flow rates on longitudinal patterns of CNT growth. Materials Chemistry and Physics, 2010, 124, 1139-1145.	2.0	4
137	A Comparative Evaluation of TiO₂Suspension Coating Techniques: A Novel Technique to Achieve Optimal Thickness and Uniformity of Photocatalytic Film. International Journal of Photoenergy, 2012, 2012, 1-9.	1.4	4
138	Effects of nitrogen-containing functional groups of reduced graphene oxide as a support for Pd in selective hydrogenation of cinnamaldehyde. Research on Chemical Intermediates, 2021, 47, 1429-1446.	1.3	4
139	Graphene oxide/SnO2 Nanocomposite as Sensing Material for Breathalyzers: Selective Detection of Ethanol in the presence of Automotive CO and Hydrocarbons Emissions. Scientia Iranica, 2017, .	0.3	4
140	Kinetic Modeling of Carbon Nanotube Production and Minimization of Amorphous Carbon Overlayer Deposition in Floating Catalyst Method. International Journal of Chemical Reactor Engineering, 2012, 10, .	0.6	3
141	A Comparison of a Nanostructured Enzymeless Au/Fe₂O₃/MWCNTs/GCE Electrode and a GOx Modified One in Electrocatalytic Detection of Glucose. Electroanalysis, 2018, 30, 2044-2052.	1.5	3
142	Selective detection of unburned-hydrocarbon in the exhaust gas using catalytic filter. , 2014, , .		2
143	Improving catalytic converter performance by controlling the structural and redox properties of Zr-doped CeO2 nanorods supported Pd catalysts. Research on Chemical Intermediates, 2018, 44, 7753-7767.	1.3	2
144	Large-grain CH3NH3PbI3 film by incorporation of urea in one-step solution process. Superlattices and Microstructures, 2018, 123, 218-225.	1.4	2

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145	Highly dispersed atomic layer deposited CrOx on SiO2 catalyst with enhanced yield of propylene for CO2 â€“mediated oxidative dehydrogenation of propane. Molecular Catalysis, 2022, 526, 112396.	1.0	2
146	Periodic operation of the oxidative coupling of methane on Ce/Li/MgO catalyst. Studies in Surface Science and Catalysis, 1992, , 119-121.	1.5	1
147	Dynamics of Catalytic Methane Coupling. Industrial & Engineering Chemistry Research, 1997, 36, 2970-2975.	1.8	1
148	Highly selectivte sensor to CH/sub 4/ in presence of CO and ethanol using LaCoO/sub 3/ perovskite filter with Pt/SnO/sub 2/. , 0, , .		1
149	Selective Sensor to LPG in presence of CO using nanogold filter, operating at low temperature, with Pt/SnO2. , 2006, , .		1
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