Tanya S Tsoncheva

List of Publications by Year
in descending order

123 papers	2,665 citations	185998 28 h-index	233125 45 g-index
124 all docs	124 docs citations	124 times ranked	3190 citing authors

#	Article	IF	Citations
1	Cobalt oxide species supported on SBA-15, KIT-5 and KIT-6 mesoporous silicas for ethyl acetate total oxidation. Applied Catalysis B: Environmental, 2009, 89, 365-374.	10.8	169
2	Mesoporous CeO2: Synthesis by nanocasting, characterisation and catalytic properties. Microporous and Mesoporous Materials, 2007, 101, 335-341.	2.2	118
3	Mechanochemically synthesized nano-dimensional ironâ€“cobalt spinel oxides as catalysts for methanol decomposition. Applied Catalysis A: General, 2004, 277, 119-127.	2.2	99
4	Nanosized iron and ironâ€“cobalt spinel oxides as catalysts for methanol decomposition. Applied Catalysis A: General, 2006, 300, 170-180.	2.2	97
5	Catalytic VOCs elimination over copper and cerium oxide modified mesoporous SBA-15 silica. Applied Catalysis A: General, 2013, 453, 1-12.	2.2	85
6	Studies on the state of iron oxide nanoparticles in MCM-41 and MCM-48 silica materials. Microporous and Mesoporous Materials, 2003, 63, 125-137.	2.2	81
7	Thermally synthesized nanosized copper ferrites as catalysts for environment protection. Catalysis Communications, 2010, 12, 105-109.	1.6	71
8	Toluene oxidation on titanium- and iron-modified MCM-41 materials. Journal of Hazardous Materials, 2009, 168, 226-232.	6.5	65
9	Characterization of Cu/MCM-41 and Cu/MCM-48 mesoporous catalysts by FTIR spectroscopy of adsorbed CO. Applied Catalysis A: General, 2003, 241, 331-340.	2.2	58
10	Cobalt-modified mesoporous MgO, ZrO2, and CeO2 oxides as catalysts for methanol decomposition. Journal of Colloid and Interface Science, 2009, 333, 277-284.	5.0	56
11	Effect of preparation procedure on the formation of nanostructured ceriaâ€“zirconia mixed oxide catalysts for ethyl acetate oxidation: Homogeneous precipitation with urea vs template-assisted hydrothermal synthesis. Applied Catalysis A: General, 2015, 502, 418-432.	2.2	56
12	Preparation, characterization and catalytic behavior in methanol decomposition of nanosized iron oxide particles within large pore ordered mesoporous silicas. Microporous and Mesoporous Materials, 2006, 89, 209-218.	2.2	51
13	Copper-modified mesoporous MCM-41 silica: FTIR and catalytic study. Journal of Molecular Catalysis A, 2004, 209, 125-134.	4.8	48
14	Critical evaluation of the state of iron oxide nanoparticles on different mesoporous silicas prepared by an impregnation method. Microporous and Mesoporous Materials, 2008, 112, 327-337.	2.2	48
15	Nanosized copper ferrite materials: Mechanochemical synthesis and characterization. Journal of Solid State Chemistry, 2011, 184, 1153-1158.	1.4	47
16	Iron oxide modified mesoporous carbons: Physicochemical and catalytic study. Microporous and Mesoporous Materials, 2005, 81, 333-341.	2.2	40
17	Activated carbons from waste biomass and low rank coals as catalyst supports for hydrogen production by methanol decomposition. Fuel Processing Technology, 2015, 137, 139-147.	3.7	40
18	Effect of the precursor and the preparation method on copper based activated carbon catalysts for methanol decomposition to hydrogen and carbon monoxideâ˜†. Fuel, 2003, 82, 755-763.	3.4	39

#	Article	IF	Citations
19	Iron and copper oxide modified SBA-15 materials as catalysts in methanol decomposition: Effect of copolymer template removal. Applied Catalysis A: General, 2007, 318, 234-243.	2.2	38
20	Spark plasma sintering synthesis of Ni1â^’Zn Fe2O4 ferrites: MÃ¶ssbauer and catalytic study. Solid State Sciences, 2012, 14, 1092-1099.	1.5	38
21	Nanostructured copper-zirconia composites as catalysts for methanol decomposition. Applied Catalysis B: Environmental, 2015, 165, 599-610.	10.8	38
22	Novel preparation of nanosized mesoporous SnO2 powders: Physicochemical and catalytic properties. Applied Catalysis B: Environmental, 2010, 94, 158-165.	10.8	35
23	Effect of mesoporous silica topology on the formation of active sites in copper supported catalysts for methanol decomposition. Applied Catalysis B: Environmental, 2014, 147, 684-697.	10.8	35
24	Activated carbon from Bulgarian peach stones as a support of catalysts for methanol decomposition. Biomass and Bioenergy, 2018, 109, 135-146.	2.9	34
25	Copper oxide modified large pore ordered mesoporous silicas for ethyl acetate combustion. Catalysis Communications, 2006, 7, 357-361.	1.6	33
26	MCM-41 silica modified with copper and iron oxides as catalysts for methanol decomposition. Journal of Molecular Catalysis A, 2006, 246, 118-127.	4.8	33
27	Nanosized iron and chromium oxides supported on mesoporous CeO2 and SBA-15 silica: Physicochemical and catalytic study. Applied Surface Science, 2010, 257, 523-530.	3.1	30
28	Structure and catalytic activity of hosted in mesoporous silicas copper species: Effect of preparation procedure and support pore topology. Applied Catalysis A: General, 2011, 406, 13-21.	2.2	30
29	Effect of the rehydration on the acidity and catalytic activity of SAPO molecular sieves. Catalysis Letters, 1993, 18, 125-135.	1.4	29
30	Oxidized carbon as a support of copper oxide catalysts for methanol decomposition to hydrogen and carbon monoxide. Fuel, 2002, 81, 203-209.	3.4	29
31	Nickel modified ultrananosized diamonds and their application as catalysts in methanol decomposition. Journal of Molecular Catalysis A, 2006, 259, 223-230.	4.8	28
32	Synthesis, characterization and catalytic properties of nanodimensional nickel ferrite/silica composites. Applied Catalysis A: General, 2007, 317, 34-42.	2.2	25
33	Optimization of the preparation procedure of cobalt modified silicas as catalysts in methanol decomposition. Applied Catalysis A: General, 2012, 417-418, 209-219.	2.2	25
34	Nanosized Cu0.5Co0.5Fe2O4 ferrite as catalyst for methanol decomposition: Effect of preparation procedure. Catalysis Communications, 2013, 32, 41-46.	1.6	25
35	Iron oxide nanoparticles supported on mesoporous MgO and CeO2: A comparative physicochemical and catalytic study. Microporous and Mesoporous Materials, 2008, 110, 339-346.	2.2	24
36	Biomass waste-derived nitrogen and iron co-doped nanoporous carbons as electrocatalysts for the oxygen reduction reaction. Electrochimica Acta, 2021, 387, 138490.	2.6	23

#	Article	IF	Citations
37	Effect of rhenium on copper supported on activated carbon catalysts for methanol decomposition. Journal of Molecular Catalysis A, 2005, 225, 245-251.	4.8	22
38	Cobalt and iron oxide modified mesoporous zirconia: Preparation, characterization and catalytic behaviour in methanol conversion. Microporous and Mesoporous Materials, 2009, 120, 389-396.	2.2	22
39	Structure sensitivity of methanol decomposition on Ni/SiO2 catalysts. Journal of Materials Science, 2011, 46, 7144-7151.	1.7	22
40	Size controlled copper nanoparticles hosted in mesoporous silica matrix: Preparation and characterization. Applied Catalysis B: Environmental, 2012, 126, 161-171.	10.8	22
41	Effect of Chromium on Copper Containing Activated Carbon Catalysts for Methanol Decomposition. Reaction Kinetics and Catalysis Letters, 2001, 72, 383-390.	0.6	21
42	Titanium modified MCM-41 as a catalyst for toluene oxidation. Catalysis Communications, 2008, 10, 304-308.	1.6	21
43	Silica supported copper and cerium oxide catalysts for ethyl acetate oxidation. Journal of Colloid and Interface Science, 2013, 404, 155-160.	5.0	20
44	Tailored copper nanoparticles in ordered mesoporous KIT-6 silica: Preparation and application as catalysts in integrated system for NO removal with products of methanol decomposition. Applied Catalysis A: General, 2013, 464-465, 243-252.	2.2	20
45	Pore topology control of supported on mesoporous silicas copper and cerium oxide catalysts for ethyl acetate oxidation. Microporous and Mesoporous Materials, 2013, 180, 156-161.	2.2	20
46	Activated carbon from waste biomass as catalyst support: formation of active phase in copper and cobalt catalysts for methanol decomposition. Journal of Porous Materials, 2015, 22, 1127-1136.	1.3	20
47	Methanol conversion to hydrocarbons on porous aluminosilicates. Applied Catalysis A: General, 2002, 225, 101-107.	2.2	19
48	Template-assisted hydrothermally obtained titania-ceria composites and their application as catalysts in ethyl acetate oxidation and methanol decomposition with a potential for sustainable environment protection. Applied Surface Science, 2017, 396, 1289-1302.	3.1	19
49	Cobalt ferrite nanoparticles hosted in activated carbon from renewable sources as catalyst for methanol decomposition. Catalysis Communications, 2014, 55, 43-48.	1.6	18
50	Methanol Decomposition on Fe2O3 /MCM-48 Silica Catalyst. Reaction Kinetics and Catalysis Letters, 2001, 74, 385-391.	0.6	17
51	Synthesis and characterization of CuO and Fe2O3 nanoparticles within mesoporous MCM-41/-48 silica. Studies in Surface Science and Catalysis, 2002, 142, 1245-1252.	1.5	16
52	Gold and iron nanoparticles in mesoporous silicas: Preparation and characterization. Catalysis Communications, 2007, 8, 1573-1577.	1.6	16
53	Copper-cobalt ferrites as catalysts for methanol decomposition. Open Chemistry, 2014, 12, 250-259.	1.0	16
54	Physicochemical and catalytic properties of grafted vanadium species on different mesoporous silicas. Journal of Colloid and Interface Science, 2008, 321, 342-349.	5.0	15

#	Article	IF	Citations
55	Formation of catalytic active sites in iron modified activated carbons from agriculture residues. Microporous and Mesoporous Materials, 2015, 217, 87-95.	2.2	15
56	Activated carbons from used motor oil as catalyst support for sustainable environmental protection. Microporous and Mesoporous Materials, 2018, 259, 9-16.	2.2	15
57	Phase composition and catalytic properties in methanol decomposition of ironâ€"ruthenium modified activated carbon. Applied Catalysis A: General, 2004, 267, 67-75.	2.2	14
58	Effect of precursor of manganese supported on activated carbon catalysts for methanol decomposition. Catalysis Communications, 2004, 5, 95-99.	1.6	14
59	Synthesis and characterization of copper-nickel ferrite catalysts for ethyl acetate oxidation. Hyperfine Interactions, 2020, 241, 1.	0.2	14
60	Transition metal modified activated carbons from biomass and coal treatment products as catalysts for methanol decomposition. Reaction Kinetics, Mechanisms and Catalysis, 2013, 110, 281-294.	0.8	13
61	Cobalt- and iron-based nanoparticles hosted in SBA-15 mesoporous silica and activated carbon from biomass: Effect of modification procedure. Solid State Sciences, 2015, 48, 286-293.	1.5	13
62	Template-assisted hydrothermally synthesized iron-titanium binary oxides and their application as catalysts for ethyl acetate oxidation. Applied Catalysis A: General, 2016, 528, 24-35.	2.2	13
63	Auto-combustion synthesis, MÃ¶ssbauer study and catalytic properties of copper-manganese ferrites. Hyperfine Interactions, 2016, 237, 1.	0.2	13
64	Zinc ferrites hosted in activated carbon from waste precursors as catalysts in methanol decomposition. Microporous and Mesoporous Materials, 2016, 229, 59-67.	2.2	12
65	Mesoporous TiO2 powders as host matrices for iron nanoparticles. Effect of the preparation procedure and doping with Hf. Nano Structures Nano Objects, 2016, 7, 56-63.	1.9	12
66	Iron modified titaniumâ€"hafnium binary oxides as catalysts in total oxidation of ethyl acetate. Catalysis Communications, 2016, 81, 14-19.	1.6	12
67	Synthesis and MÃ¶ssbauer spectroscopic investigation of copper-manganese ferrite catalysts for water-gas shift reaction and methanol decomposition. Materials Research Bulletin, 2017, 95, 556-562.	2.7	12
68	CuO Â– activated carbon catalysts for methanol decomposition to hydrogen and carbon monoxide. Canadian Journal of Chemistry, 2003, 81, 1096-1100.	0.6	11
69	Iron-oxide-modified nanosized diamond: Preparation, characterization, and catalytic properties in methanol decomposition. Journal of Colloid and Interface Science, 2006, 302, 492-500.	5.0	11
70	Study of mixed valence iron borate catalysts in ethyl acetate oxidation process. Applied Catalysis A: General, 2006, 298, 24-31.	2.2	11
71	Copper and chromium oxide nanocomposites supported on SBA-15 silica as catalysts for ethylacetate combustion: Effect of mesoporous structure and metal oxide composition. Microporous and Mesoporous Materials, 2011, 137, 56-64.	2.2	11
72	Effect of porous structure on the formation of active sites in manganese hosted in ordered mesoporous silica catalysts for environmental protection. Journal of Porous Materials, 2016, 23, 1005-1013.	1.3	11

#	Article	IF	Citations
73	Formation of Catalytic Active Sites in Hydrothermally Obtained Binary Ceriaâ€“Iron Oxides: Composition and Preparation Effects. ACS Applied Materials & Interfaces, 2021, 13, 1838-1852.	4.0	11
74	PROPERTIES OF INDIUM CONTAINING ZEOLITES PREPARED BY A SOLID STATE REACTION. , 1993, , 461-468.		11
75	The Effect of the SiO2/Al2O3 Ratio on the Conversion of Methanol over ZSM-5 Zeolites. Zeitschrift Fur Physikalische Chemie, 1986, 149, 237-247.	1.4	9
76	Iron modified mesoporous carbon and silica catalysts for methanol decomposition. Reaction Kinetics and Catalysis Letters, 2004, 83, 299-305.	0.6	9
77	Iron oxide modified diamond blends containing ultradispersed diamond. Journal of Colloid and Interface Science, 2006, 300, 183-189.	5.0	9
78	Copper and chromium modified SBA-15: 11C-radiolabeling catalytic study. Microporous and Mesoporous Materials, 2012, 148, 1-7.	2.2	9
79	MÃ¶ssbauer study of Cu1â^’xZnxFe2O4 catalytic materials. Hyperfine Interactions, 2014, 226, 89-97.	0.2	9
80	Methanol conversion as a test for framework cobalt elucidation in CoAPSO molecular sieves. Applied Catalysis A: General, 1998, 171, 241-245.	2.2	8
81	Title is missing!. Reaction Kinetics and Catalysis Letters, 2001, 74, 353-362.	0.6	8
82	Nickelmodifiedlarge poremesoporoussilicas ascatalysts for methanol decomposition. Reaction Kinetics and Catalysis Letters, 2005, 86, 275-280.	0.6	8
83	Rhenium and manganese modified activated carbon as catalyst for methanol decomposition. Canadian Journal of Chemistry, 2007, 85, 118-123.	0.6	8
84	MÃ¶ssbauer study of nanodimensional nickel ferrite â€“ mechanochemical synthesis and catalytic properties. Hyperfine Interactions, 2007, 165, 215-220.	0.2	8
85	Desorption and catalytic study of iron modified MCM-41 silica by 11C-radiolabeled methanol. Catalysis Communications, 2008, 9, 1932-1936.	1.6	8
86	Coordination state of Cu+ ions in Cu-[Al]MCM-41. Applied Catalysis B: Environmental, 2011, 106, 186-186.	10.8	8
87	Nanostructured tin dioxide â€“ a promising multipurpose support material for catalytic and biocatalytic applications. Chemical Engineering Journal, 2014, 252, 55-63.	6.6	8
88	NixZn1-xFe2O4 modified activated carbons from industrial waste as catalysts for hydrogen production. Microporous and Mesoporous Materials, 2019, 285, 96-104.	2.2	8
89	Mesoporous copper-ceria-titania ternary oxides as catalysts for environmental protection: Impact of Ce/Ti ratio and preparation procedure. Applied Catalysis A: General, 2020, 595, 117487.	2.2	8
90	Methanol decomposition on copper and manganese oxides supported on activated carbon. Reaction Kinetics and Catalysis Letters, 2003, 80, 383-390.	0.6	7

#	Article	IF	Citations
91	Effect of support pore size on the structural and catalytic properties of iron and cobalt oxides modified SBA-1, SBA-15, MCM-41 and MCM-48 silica materials. Studies in Surface Science and Catalysis, 2004, , 841-847.	1.5	7
92	Radioisotopic study of¹¹C-labelling methanol decomposition on iron oxide modified mesoporous MCM-41 silica. Canadian Journal of Chemistry, 2009, 87, 478-485.	0.6	7
93	Mesoporous Ceâ€“Feâ€“Ni nanocomposites encapsulated in carbon-nanofibers: Synthesis, characterization and catalytic behavior in oxygen evolution reaction. Carbon, 2022, 196, 186-202.	5.4	7
94	Novel consecutive 11C- and 12C-methanol adsorption technique for the catalytic active sites characterization of vanadium modified MCM-41. Catalysis Communications, 2009, 10, 1216-1220.	1.6	6
95	Titania and zirconia binary oxides as catalysts for total oxidation of ethyl acetate and methanol decomposition. Journal of Environmental Chemical Engineering, 2018, 6, 2540-2550.	3.3	6
96	Structure and catalytic activity of hydrothermally obtained titanium-tin binary oxides for sustainable environment: Evaluation and control. Microporous and Mesoporous Materials, 2019, 276, 223-231.	2.2	6
97	The effect of MCM-41 structure on the chemical properties of grafted vanadium oxide species. Applied Catalysis A: General, 2006, 303, 207-212.	2.2	5
98	Cobalt and iron modified activated carbon from coal tar pitch: preparation and application as catalysts for methanol decomposition. Journal of Porous Materials, 2014, 21, 503-512.	1.3	5
99	Ni0.5M0.5Fe2O4 (Mâ€‰=â€‰Cu, Zn) Ferrites Hosted in Nanoporous Carbon from Waste Materials as Catalysts for Hydrogen Production. Waste and Biomass Valorization, 2021, 12, 1371-1384.	1.8	5
100	Nickel-Decorated Mesoporous Ironâ€“Cerium Mixed Oxides: Microstructure and Catalytic Activity in Methanol Decomposition. ACS Applied Materials & Interfaces, 2022, 14, 873-890.	4.0	5
101	A study of the nonstationary character of the methanol-to-hydrocarbons conversion. Canadian Journal of Chemistry, 1992, 70, 1997-2002.	0.6	4
102	Copper and chromium oxide nanocomposite catalysts for simultaneous elimination of CO and oxygenate VOCs in toxic gas emissions. Canadian Journal of Chemistry, 2011, 89, 583-589.	0.6	4
103	11C-radiolabeling study of methanol decomposition on copper oxide modified mesoporous SBA-15 silica. Applied Surface Science, 2011, 257, 6661-6666.	3.1	4
104	Formation of catalytic active sites in copper and manganese modified SBA-15 mesoporous silica. Journal of Porous Materials, 2013, 20, 1361-1369.	1.3	4
105	Control of copper particles deposition in mesoporous SBA-15 silica by modified CVD method. Inorganica Chimica Acta, 2014, 423, 145-151.	1.2	4
106	Pore design in view of adsorption, reductive and catalytic properties of Fe or Cu oxide modified large mesoporous silicas. Studies in Surface Science and Catalysis, 2005, 158, 773-780.	1.5	3
107	11C-radiolabeling study of nickel modified H-MCM-41 with methanol as a probe molecule. Journal of Materials Science, 2010, 45, 4229-4235.	1.7	3
108	MÃ¶ssbauer study of iron-based perovskite-type materials as potential catalysts for ethyl acetate oxidation. Journal of Physics: Conference Series, 2010, 217, 012043.	0.3	3

#	Article	IF	Citations
109	Nanostructured copper, chromium, and tin oxide multicomponent materials as catalysts for methanol decomposition: 11C-radiolabeling study. Journal of Colloid and Interface Science, 2013, 389, 244-251.	5.0	3
110	Mixed oxides of cerium and manganese as catalysts for total oxidation of ethyl acetate: effect of preparation procedure. Reaction Kinetics, Mechanisms and Catalysis, 2022, 135, 105.	0.8	3
111	Design Control of Copper-Doped Titaniaâ€“Zirconia Catalysts for Methanol Decomposition and Total Oxidation of Ethyl Acetate. Symmetry, 2022, 14, 751.	1.1	3
112	Reaction pathways of methanol over Pt/zeolite catalysts: effect of different active sites. Zeolites, 1989, 9, 516-520.	0.9	2
113	Iron oxide nanoparticles supported on ultradispersed diamond powders: Effect of the preparation procedure. Applied Surface Science, 2009, 255, 4322-4328.	3.1	2
114	11C-Radiolabeling study of methanol decomposition on chromium modified SBA-15 silica. Journal of Porous Materials, 2012, 19, 705-711.	1.3	2
115	Cobalt ferrite modified with Hf(IV) as a catalyst for oxidation of ethyl acetate. Catalysis Today, 2020, 357, 541-546.	2.2	2
116	MÃ¶ssbauer study of nanodimensional nickel ferrite â€" mechanochemical synthesis and catalytic properties. , 2006, , 215-220.		2
117	The effect of hydrogen on the modification of catalytic sites in CoAPO-5 and CoAPSO-5 molecular sieves. Microporous and Mesoporous Materials, 1998, 20, 217-222.	2.2	1
118	Iron oxide nanoparticles supported on NH2- and COOH-functionalized SBA-15. Reaction Kinetics and Catalysis Letters, 2008, 95, 329-336.	0.6	1
119	Multi-component titaniumâ€“copperâ€“cobalt- and niobium nanostructured oxides as catalysts for ethyl acetate oxidation. Reaction Kinetics, Mechanisms and Catalysis, 2015, 116, 397-408.	0.8	1
120	Valorization of coal treatment residues as a host matrix of nanosized nickel, copper and zinc ferrites. Reaction Kinetics, Mechanisms and Catalysis, 2019, 127, 691-703.	0.8	1
121	Kinetic study on deactivation of Hâ€"Mordenite in methanol to hydrocarbons conversion. Studies in Surface Science and Catalysis, 1999, , 457-460.	1.5	0
122	Design and Catalytic Behaviour of Hosted in Activated Carbon Foam CoxZn1âˆ'xFe2O4 Ferrites. Symmetry, 2021, 13, 1532.	1.1	0
123	Synthesis, MÃ¶ssbauer study and catalytic properties of Cu-Ni-Fe- oxide/nitride mixed-phase materials. Hyperfine Interactions, 2021, 242, 1.	0.2	0