Tatyana T Tabakova

List of Publications by Year
in descending order

95 papers	5,116 citations	87888 38 h-index	85541 71 g-index
96 all docs	96 docs citations	96 times ranked	4034 citing authors

#	Article	IF	Citations
1	FTIR Study of the Low-Temperature Waterâ€“Gas Shift Reaction on Au/Fe2O3 and Au/TiO2 Catalysts. Journal of Catalysis, 1999, 188, 176-185.	6.2	419
2	Low-temperature water-gas shift reaction over Au/CeO2 catalysts. Catalysis Today, 2002, 72, 51-57.	4.4	417
3	FTIR study of low-temperature water-gas shift reaction on gold/ceria catalyst. Applied Catalysis A: General, 2003, 252, 385-397.	4.3	239
4	Low-Temperature Waterâ€“Gas Shift Reaction over Au/Î±-Fe2O3. Journal of Catalysis, 1996, 158, 354-355.	6.2	222
5	Titanium oxide nanotubes as supports of nano-sized gold catalysts for low temperature water-gas shift reaction. Applied Catalysis A: General, 2005, 281, 149-155.	4.3	194
6	Low-temperature water-gas shift reaction on AuÎ±-Fe2O3 catalyst. Applied Catalysis A: General, 1996, 134, 275-283.	4.3	183
7	Influence of the microscopic properties of the support on the catalytic activity of Au/ZnO, Au/ZrO2, Au/Fe2O3, Au/Fe2O3â€“ZnO, Au/Fe2O3â€“ZrO2 catalysts for the WGS reaction. Applied Catalysis A: General, 2000, 202, 91-97.	4.3	164
8	Activity and deactivation of Au/TiO2 catalyst in CO oxidation. Journal of Molecular Catalysis A, 2004, 213, 235-240.	4.8	164
9	Gold, silver and copper catalysts supported on TiO2 for pure hydrogen production. Catalysis Today, 2002, 75, 169-175.	4.4	156
10	Catalytic performance and characterization of Au/doped-ceria catalysts for the preferential CO oxidation reaction. Journal of Catalysis, 2008, 256, 237-247.	6.2	145
11	Au/Î±-Fe2O3 catalyst for waterâ€“gas shift reaction prepared by depositionâ€“precipitation. Applied Catalysis A: General, 1998, 169, 9-14.	4.3	137
12	Gold catalysts supported on mesoporous zirconia for low-temperature waterâ€“gas shift reaction. Applied Catalysis B: Environmental, 2006, 63, 178-186.	20.2	136
13	Gold catalysts supported on mesoporous titania for low-temperature waterâ€“gas shift reaction. Applied Catalysis A: General, 2004, 270, 135-141.	4.3	132
14	A comparative study of nanosized IB/ceria catalysts for low-temperature water-gas shift reaction. Applied Catalysis A: General, 2006, 298, 127-143.	4.3	126
15	Effect of synthesis procedure on the low-temperature WGS activity of Au/ceria catalysts. Applied Catalysis B: Environmental, 2004, 49, 73-81.	20.2	121
16	A comparative study of ceria-supported gold and copper oxide catalysts for preferential CO oxidation reaction. Chemical Engineering Journal, 2006, 124, 41-45.	12.7	102
17	Nanosize gold catalysts promoted by vanadium oxide supported on titania and zirconia for complete benzene oxidation. Applied Catalysis A: General, 2001, 209, 291-300.	4.3	93
18	Quantitative determination of gold active sites by chemisorption and by infrared measurements of adsorbed CO. Journal of Catalysis, 2006, 237, 431-434.	6.2	88

#	Article	IF	Citations
19	CO-free hydrogen production over Au/CeO2â€“Fe2O3 catalysts: Part 1. Impact of the support composition on the performance for the preferential CO oxidation reaction. Applied Catalysis B: Environmental, 2011, 101, 256-265.	20.2	88
20	Mesoporous and nanostructured CeO2 as supports of nano-sized gold catalysts for low-temperature water-gas shift reaction. Catalysis Today, 2008, 131, 203-210.	4.4	86
21	Effect of additives on the WGS activity of combustion synthesized CuO/CeO2 catalysts. Catalysis Communications, 2007, 8, 101-106.	3.3	81
22	A comparative study of hydrogen photocatalytic production from glycerol and propan-2-ol on M/TiO 2 systems (M=Au, Pt, Pd). Catalysis Today, 2017, 280, 58-64.	4.4	71
23	Total oxidation of toluene over noble metal based Ce, Fe and Ni doped titanium oxides. Applied Catalysis B: Environmental, 2014, 146, 138-146.	20.2	69
24	Preferential CO oxidation in H2-rich gas mixtures over Au/doped ceria catalysts. Catalysis Today, 2008, 138, 239-243.	4.4	65
25	Effect of phosphorus concentration and method of preparation on the structure of the oxide form of phosphorus-nickel-tungsten/alumina hydrotreating catalysts. Applied Catalysis A: General, 1997, 161, 105-119.	4.3	64
26	Pure hydrogen production on a new goldâ€“thoria catalyst for fuel cell applications. Applied Catalysis B: Environmental, 2006, 63, 94-103.	20.2	58
27	Deactivation of nanosize gold supported on zirconia in CO oxidation. Catalysis Communications, 2004, 5, 537-542.	3.3	57
28	Surface and Inner Defects in Au/CeO₂ WGS Catalysts: Relation between Raman Properties, Reactivity and Morphology. Chemistry - A European Journal, 2011, 17, 4356-4361.	3.3	54
29	Gold nanoparticles supported on ceria-modified mesoporous titania as highly active catalysts for low-temperature water-gas shift reaction. Catalysis Today, 2007, 128, 223-229.	4.4	52
30	CO-free hydrogen production over Au/CeO2â€“Fe2O3 catalysts: Part 2. Impact of the support composition on the performance in the water-gas shift reaction. Applied Catalysis B: Environmental, 2011, 101, 266-274.	20.2	51
31	Highly active copper catalyst for low-temperature water-gas shift reaction prepared via a Cu-Mn spinel oxide precursor. Applied Catalysis A: General, 2013, 451, 184-191.	4.3	50
32	Complete benzene oxidation over mono and bimetallic Auâ€“Pd catalysts supported on Fe-modified ceria. Chemical Engineering Journal, 2015, 260, 133-141.	12.7	47
33	Gold catalysts supported on Y-modified ceria for CO-free hydrogen production via PROX. Applied Catalysis B: Environmental, 2016, 188, 154-168.	20.2	47
34	Influence of the preparation method and dopants nature on the WGS activity of gold catalysts supported on doped by transition metals ceria. Applied Catalysis B: Environmental, 2013, 136-137, 70-80.	20.2	45
35	NO reduction by CO over gold catalysts supported on Fe-loaded ceria. Applied Catalysis B: Environmental, 2015, 174-175, 176-184.	20.2	43
36	Nanosized gold catalysts supported on ceria and ceria-alumina for WGS reaction: Influence of the preparation method. Applied Catalysis A: General, 2007, 333, 153-160.	4.3	41

#	Article	IF	Citations
37	Spectroscopic Analysis of Auâ€“V-Based Catalysts and Their Activity in the Catalytic Removal of Diesel Soot Particulates. Journal of Catalysis, 2002, 209, 515-527.	6.2	40
38	CO-Free Hydrogen Production for Fuel Cell Applications over Au/CeO₂ Catalysts: FTIR Insight into the Role of Dopant. Journal of Physical Chemistry A, 2010, 114, 3909-3915.	2.5	40
39	Gold catalysts for low temperature water-gas shift reaction: Effect of ZrO2 addition to CeO2 support. Applied Catalysis B: Environmental, 2012, 125, 507-515.	20.2	38
40	Impact of Ceâ€“Fe synergism on the catalytic behaviour of Au/CeO₂â€“FeO_x/Al₂O₃for pure H₂production. Catalysis Science and Technology, 2013, 3, 779-787.	4.1	38
41	Total oxidation of volatile organic compounds on Au/Ceâ€“Tiâ€“O and Au/Ceâ€“Tiâ€“Zrâ€“O mesoporous catalysts. Journal of Materials Science, 2009, 44, 6654-6662.	3.7	29
42	Recent Advances in Design of Gold-Based Catalysts for H2 Clean-Up Reactions. Frontiers in Chemistry, 2019, 7, 517.	3.6	27
43	Alumina supported Au/Y-doped ceria catalysts for pure hydrogen production via PROX. International Journal of Hydrogen Energy, 2019, 44, 233-245.	7.1	27
44	Nano-gold catalysts on Fe-modified ceria for pure hydrogen production via WGS and PROX: Effect of preparation method and Fe-doping on the structural and catalytic properties. Applied Catalysis A: General, 2013, 467, 76-90.	4.3	24
45	Structureâ€“reactivity relationship in Co₃O₄ promoted Au/CeO₂ catalysts for the CH₃OH oxidation reaction revealed by in situ FTIR and operando EXAFS studies. Journal of Materials Chemistry A, 2017, 5, 2083-2094.	10.3	23
46	Gold nanoparticles supported on ceria-modified mesoporousâ€“macroporous binary metal oxides as highly active catalysts for low-temperature waterâ€“gas shift reaction. Journal of Materials Science, 2009, 44, 6637-6643.	3.7	22
47	Structure-activity relationship in water-gas shift reaction over gold catalysts supported on Y-doped ceria. Journal of Rare Earths, 2019, 37, 383-392.	4.8	22
48	Viability of Au/CeO₂â€“ZnO/Al₂O₃ Catalysts for Pure Hydrogen Production by the Waterâ€“Gas Shift Reaction. ChemCatChem, 2014, 6, 1401-1409.	3.7	21
49	Influence of iron (II) on the transformation of ferrihydrite into goethite in acid medium. Materials Chemistry and Physics, 1995, 41, 146-149.	4.0	20
50	Impact of metal doping on the activity of Au/CeO2 catalysts for catalytic abatement of VOCs and CO in waste gases. Catalysis Communications, 2013, 35, 51-58.	3.3	19
51	CO and VOCs Catalytic Oxidation Over Alumina Supported Cuâ€“Mn Catalysts: Effect of Au or Ag Deposition. Topics in Catalysis, 2017, 60, 110-122.	2.8	19
52	CO Adsorption on Gold Clusters Stabilized on Ceriaâ^'Titania Mixed Oxides:Â Comparison with Reference Catalysts. Journal of Physical Chemistry B, 2006, 110, 23329-23336.	2.6	18
53	New gold catalysts supported on mixed ceria-titania oxides for water-gas shift and preferential CO oxidation reactions. Reaction Kinetics and Catalysis Letters, 2007, 91, 213-221.	0.6	18
54	Relationship between structural properties and activity in complete benzene oxidation over Au/CeO2â€“CoOx catalysts. Catalysis Today, 2012, 187, 30-38.	4.4	16

#	Article	IF	Citations
55	Effect of ceria structural properties on the catalytic activity of Auâ€"CeO2 catalysts for WGS reaction. Physical Chemistry Chemical Physics, 2013, 15, 13400.	2.8	16
56	Photocatalytic abatement of trichlorethylene over Au and Pdâ€"Au supported on TiO2 by combined photomineralization/hydrodechlorination reactions under simulated solar irradiation. Journal of Catalysis, 2017, 346, 101-108.	6.2	16
57	Gold catalysts supported on ceria-modified mesoporous zirconia for low-temperature waterâ€"gas shift reaction. Journal of Porous Materials, 2012, 19, 15-20.	2.6	15
58	Gold catalysts on Co-doped ceria for complete benzene oxidation: Relationship between reducibility and catalytic activity. Catalysis Communications, 2013, 36, 84-88.	3.3	15
59	Catalytic abatement of CO and volatile organic compounds in waste gases by gold catalysts supported on ceria-modified mesoporous titania and zirconia. Chinese Journal of Catalysis, 2015, 36, 579-587.	14.0	15
60	Multicomponent Au/Cu-ZnO-Al2O3 catalysts: Robust materials for clean hydrogen production. Applied Catalysis A: General, 2018, 558, 91-98.	4.3	15
61	Temperature-programmed reduction of lightly yttrium-doped Au/CeO2 catalysts. Journal of Thermal Analysis and Calorimetry, 2018, 131, 145-154.	3.6	15
62	Mechanism of the oxidative hydrolysis of iron(II) sulphate. Journal of Materials Science: Materials in Electronics, 1992, 3, 201-205.	2.2	14
63	Effect of Y Modified Ceria Support in Mono and Bimetallic Pdâ€"Au Catalysts for Complete Benzene Oxidation. Catalysts, 2018, 8, 283.	3.5	14
64	Hydrogen production via water-gas shift reaction over gold supported on Ni-based layered double hydroxides. International Journal of Hydrogen Energy, 2021, 46, 458-473.	7.1	14
65	Mechanochemically Prepared Co3O4-CeO2 Catalysts for Complete Benzene Oxidation. Catalysts, 2021, 11, 1316.	3.5	14
66	Title is missing!. Journal of Materials Science, 2003, 38, 1995-2000.	3.7	13
67	Nanogold mesoporous iron promoted ceria catalysts for total and preferential CO oxidation reactions. Journal of Molecular Catalysis A, 2016, 414, 62-71.	4.8	13
68	Promoting effect of gold on the structure and activity of Co/kaolin catalyst for the 2,3-dihydrofuran synthesis. Catalysis Communications, 2002, 3, 341-347.	3.3	12
69	Promotional Effect of Gold on the WGS Activity of Alumina-Supported Copper-Manganese Mixed Oxides. Catalysts, 2018, 8, 563.	3.5	12
70	Gold Catalysts on Y-Doped Ceria Supports for Complete Benzene Oxidation. Catalysts, 2016, 6, 99.	3.5	11
71	Formation of goethite by oxidative hydrolysis of iron(II) sulphate. Journal of Materials Science: Materials in Electronics, 1994, 5, 168-172.	2.2	10
72	Improved Waterâ€"Gas Shift Performance of Au/NiAl LDHs Nanostructured Catalysts via CeO2 Addition. Nanomaterials, 2021, 11, 366.	4.1	9

#	Article	IF	Citations
73	Synthesis of ?-Fe2O3 via oxidative hydrolysis of iron(II) sulphate. Journal of Materials Science: Materials in Electronics, 1991, 2, 199-203.	2.2	8
74	Titanium oxide nanotubes as supports of Au or Pd nano-sized catalysts for total oxidation of VOCs. Studies in Surface Science and Catalysis, 2010, 175, 743-746.	1.5	8
75	Impact of ceria loading on the preferential CO oxidation over gold catalysts on CeO2/Al2O3 and Y-doped CeO2/Al2O3 supports prepared by mechanical mixing. Catalysis Today, 2020, 357, 547-555.	4.4	8
76	Formation of highly active iron oxide catalysts. Journal of Materials Science, 1996, 31, 1101-1105.	3.7	7
77	Gold catalysts on ceria doped with MeOx (MeÂ=ÂFe, Mn, Co and Sn) for complete benzene oxidation: effect of composition and structure of the mixed supports. Reaction Kinetics, Mechanisms and Catalysis, 2012, 105, 23-37.	1.7	7
78	Waterâ€“gas shift reaction over gold deposited on NiAl layered double hydroxides. Reaction Kinetics, Mechanisms and Catalysis, 2019, 127, 187-203.	1.7	7
79	Exploring the role of promoters (Au, Cu and Re) in the performance of Niâ€“Al layered double hydroxides for water-gas shift reaction. International Journal of Hydrogen Energy, 2023, 48, 11998-12014.	7.1	7
80	Nanosized gold catalysts on Pr-modified ceria for pure hydrogen production via WGS reaction. Materials Chemistry and Physics, 2015, 157, 138-146.	4.0	6
81	Effect of the preparation method on the reduction behavior of gold catalysts supported on ceria doped with FeOx: assignment and kinetic parameters of the individual reduction processes. Reaction Kinetics, Mechanisms and Catalysis, 2012, 105, 39-52.	1.7	5
82	CERIA-BASED GOLD CATALYSTS: SYNTHESIS, PROPERTIES, AND CATALYTIC PERFORMANCE FOR THE WGS AND PROX PROCESSES. Catalytic Science Series, 2013, , 497-564.	0.0	5
83	Pure hydrogen production via PROX over gold catalysts supported on Pr-modified ceria. Fuel, 2014, 134, 628-635.	6.4	5
84	Structure and reducibility of yttrium-doped cerium dioxide nanoparticles and (111) surface. RSC Advances, 2018, 8, 33728-33741.	3.6	5
85	Unraveling the effect of alumina-supported Y- doped ceria composition and method of preparation on the WGS activity of gold catalysts. International Journal of Hydrogen Energy, 2020, 45, 26238-26253.	7.1	5
86	Characterization of nanosized gold, silver and copper catalysts supported on ceria. Studies in Surface Science and Catalysis, 2005, 155, 493-500.	1.5	4
87	Complete Benzene Oxidation over Mono and Bimetallic Pdâ€"Au Catalysts on Alumina-Supported Y-Doped Ceria. Applied Sciences (Switzerland), 2020, 10, 1088.	2.5	4
88	Effect of support preparation method on water-gas shift activity of copper-based catalysts. International Journal of Hydrogen Energy, 2022, 47, 41268-41278.	7.1	3
89	Gold catalysts supported on mixed oxides for hydrogen production. Studies in Surface Science and Catalysis, 2006, , 1017-1024.	1.5	2
90	Gold-Based Catalysts for Complete Formaldehyde Oxidation: Insights into the Role of Support Composition. Catalysts, 2022, 12, 705.	3.5	2

#	Article	IF	Citations
91	Influence of gold presence and thermal treatment on recrystallization of copper-manganese ferrite catalysts. Hyperfine Interactions, 2017, 238, 1.	0.5	1
92	Au/CeO2 Catalysts for Catalytic Abatement of CO, CH3OH and (CH3)2O: Effect of Preparation Method. , 2012, , .		0
93	Effect of Preparation Method on the Performance for PROX of Gold Catalysts on Alumina Supported Y-Doped Ceria. International Journal of Theoretical and Applied Nanotechnology, 0, , .	0.0	0
94	A Comparative Study of Nanosized Gold and Copper Catalysts on Y-doped Ceria for the Water-Gas Shift Reaction. , 0, , .		0
95	Pure Hydrogen Production via PROX over Gold Catalysts on Alumina Supported Y-Doped Ceria: Effect of Support Preparation. , 0, , .		0