Salvatore Scire

List of Publications by Year
in descending order

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113 papers	4,681 citations	101384 36 h-index	102304 66 g-index
115 all docs	115 docs citations	115 times ranked	4963 citing authors

#	Article	IF	Citations
1	Catalytic combustion of volatile organic compounds on gold/cerium oxide catalysts. Applied Catalysis B: Environmental, 2003, 40, 43-49.	10.8	403
2	Supported gold catalysts for the total oxidation of volatile organic compounds. Applied Catalysis B: Environmental, 2012, 125, 222-246.	10.8	289
3	Catalytic combustion of volatile organic compounds on gold/iron oxide catalysts. Applied Catalysis B: Environmental, 2000, 28, 245-251.	10.8	215
4	Roomâ€Temperature Laser Synthesis in Liquid of Oxide, Metalâ€Oxide Coreâ€Shells, and Doped Oxide Nanoparticles. Chemistry - A European Journal, 2020, 26, 9206-9242.	1.7	189
5	Selective catalytic reduction of nitric oxide with ethane and methane on some metal exchanged ZSM-5 zeolites. Applied Catalysis B: Environmental, 1994, 3, 295-318.	10.8	180
6	FT-IR study of Au/Fe2O3 catalysts for CO oxidation at low temperature. Catalysis Letters, 1997, 47, 273-276.	1.4	170
7	Niâ€“Ru bimetallic catalysts for the CO2 reforming of methane. Applied Catalysis A: General, 2002, 225, 1-9.	2.2	161
8	Influence of catalyst pretreatments on volatile organic compounds oxidation over gold/iron oxide. Applied Catalysis B: Environmental, 2001, 34, 277-285.	10.8	160
9	CO2 reforming of methane over Niâ€“Ru and Niâ€“Pd bimetallic catalysts. Catalysis Letters, 1999, 59, 21-26.	1.4	157
10	Catalytic combustion of volatile organic compounds over group IB metal catalysts on Fe2O3. Catalysis Communications, 2001, 2, 229-232.	1.6	132
11	Pt catalysts supported on H-type zeolites for the catalytic combustion of chlorobenzene. Applied Catalysis B: Environmental, 2003, 45, 117-125.	10.8	117
12	Selective hydrogenation of phenol to cyclohexanone over supported Pd and Pd-Ca catalysts: an investigation on the influence of different supports and Pd precursors. Applied Catalysis A: General, 2002, 235, 21-31.	2.2	116
13	Ceria supported group IB metal catalysts for the combustion of volatile organic compounds and the preferential oxidation of CO. Applied Catalysis B: Environmental, 2010, 101, 109-117.	10.8	116
14	Influence of the support on CO2 methanation over Ru catalysts: an FT-IR study. Catalysis Letters, 1998, 51, 41-45.	1.4	82
15	The role of acidity in the decomposition of 1,2-dichlorobenzene over TiO2-based V2O5/WO3 catalysts. Applied Catalysis A: General, 2008, 341, 18-25.	2.2	82
16	Facile synthesis of Ni nanofoam for flexible and low-cost non-enzymatic glucose sensing. Sensors and Actuators B: Chemical, 2016, 224, 764-771.	4.0	75
17	A Bioinformatic Approach to the Identification of Candidate Genes for the Development of New Cancer Diagnostics. Biological Chemistry, 2003, 384, 321-327.	1.2	70
18	Effect of the Al/Si atomic ratio on surface and structural properties of solâ€“gel prepared aluminosilicates. Journal of Solid State Chemistry, 2003, 174, 482-488.	1.4	63

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19	Hydrogen production through NaBH4 hydrolysis over supported Ru catalysts: An insight on the effect of the support and the ruthenium precursor. International Journal of Hydrogen Energy, 2011, 36, 3817-3826.	3.8	63
20	Au/TiO2-CeO2 Catalysts for Photocatalytic Water Splitting and VOCs Oxidation Reactions. Catalysts, 2016, 6, 121.	1.6	63
21	Auâ€“Ag/CeO2 and Auâ€“Cu/CeO2 Catalysts for Volatile Organic Compounds Oxidation and CO Preferential Oxidation. Catalysis Letters, 2015, 145, 1691-1702.	1.4	62
22	Visible light photocatalytic activity of macro-mesoporous TiO 2 -CeO 2 inverse opals. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 352, 25-34.	2.0	60
23	Design of nano-sized FeOx and Au/FeOx catalysts supported on CeO2 for total oxidation of VOC. Applied Catalysis A: General, 2011, 395, 10-18.	2.2	59
24	Selective oxidation of CO in H2-rich stream over gold/iron oxide: An insight on the effect of catalyst pretreatment. Journal of Molecular Catalysis A, 2008, 284, 24-32.	4.8	51
25	Selective oxidation of CO in H2-rich stream over Au/CeO2 and Cu/CeO2 catalysts: An insight on the effect of preparation method and catalyst pretreatment. Applied Catalysis A: General, 2012, 417-418, 66-75.	2.2	51
26	Potentialities of multivariate approaches in genome-based cancer research: identification of candidate genes for new diagnostics by PLS discriminant analysis. Journal of Chemometrics, 2004, 18, 125-132.	0.7	49
27	Carbon supported bimetallic Ru-Co catalysts for H₂ production through NaBH₄ and NH₃ BH₃ hydrolysis. International Journal of Energy Research, 2018, 42, 1183-1195.	2.2	47
28	An investigation of the mechanism of the selective catalytic reduction of NO on various metal/ZSM-5 catalysts: reactions of H2/NO mixtures. Catalysis Letters, 1994, 27, 177-186.	1.4	44
29	A comparison between photocatalytic and catalytic oxidation of 2-Propanol over Au/TiO 2 â€“CeO 2 catalysts. Journal of Molecular Catalysis A, 2016, 415, 56-64.	4.8	43
30	Laser processing of TiO2 colloids for an enhanced photocatalytic water splitting activity. Journal of Colloid and Interface Science, 2017, 489, 131-137.	5.0	43
31	Effect of the addition of different doping agents on visible light activity of porous TiO2 photocatalysts. Molecular Catalysis, 2018, 455, 108-120.	1.0	42
32	FT-IR characterization of alkali-doped Pd catalysts for the selective hydrogenation of phenol to cyclohexanone. Applied Surface Science, 1996, 93, 309-316.	3.1	40
33	A solar photothermocatalytic approach for the CO2 conversion: Investigation of different synergisms on CoO-CuO/brookite TiO2-CeO2 catalysts. Chemical Engineering Journal, 2022, 428, 131249.	6.6	39
34	Role of the Support and the Ru Precursor on the Performance of Ru/Carbon Catalysts Towards H2 Production Through NaBH4 Hydrolysis. Catalysis Letters, 2012, 142, 882-888.	1.4	38
35	Efficient H2 production by photocatalytic water splitting under UV or solar light over variously modified TiO2-based catalysts. International Journal of Hydrogen Energy, 2019, 44, 14796-14807.	3.8	38
36	Photoactivity of hierarchically nanostructured ZnOâ€“PES fibre mats for water treatments. RSC Advances, 2016, 6, 42778-42785.	1.7	37

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37	Effect of the acidâ€“base properties of Pdâ€“Ca/Al2O3 catalysts on the selective hydrogenation of phenol to cyclohexanone: FT-IR and TPD characterization. Applied Surface Science, 1998, 136, 311-320.	3.1	34
38	Exploring the Photothermo-Catalytic Performance of Brookite TiO2-CeO2 Composites. Catalysts, 2020, 10, 765.	1.6	34
39	Activated Carbons: In Vitro Affinity for Aflatoxin B1 and Relation of Adsorption Ability to Physicochemical Parameters. Journal of Food Protection, 1996, 59, 545-550.	0.8	32
40	Supported silver catalysts prepared by deposition in aqueous solution of Ag nanoparticles obtained through a photochemical approach. Applied Catalysis A: General, 2009, 367, 138-145.	2.2	30
41	Ruâ€“Pd Bimetallic Catalysts Supported on CeO2-MnOX Oxides as Efficient Systems for H2 Purification through CO Preferential Oxidation. Catalysts, 2018, 8, 203.	1.6	29
42	Photocatalytic H2 production over inverse opal TiO2 catalysts. Catalysis Today, 2019, 321-322, 113-119.	2.2	29
43	Combined effect of noble metals (Pd, Au) and support properties on HDS activity of Co/SiO2 catalysts. Applied Catalysis A: General, 2009, 353, 296-304.	2.2	28
44	Asphaltene-bearing mantle xenoliths from Hyblean diatremes, Sicily. Lithos, 2011, 125, 956-968.	0.6	27
45	Shortcuts in genome-scale cancer pharmacology research from multivariate analysis of the National Cancer Institute gene expression databaseâ˜†â˜†Supplementary information is available on Elsevierâ€™s World Wide Web site (http://www.elsevier.nl) or from the corresponding authors.11Abbreviations: NCI, National Cancer Institute; PLS, partial least squares modelling in latent variables or projections to latent structures; SIMCA, soft independent modelling of class analogy; PCA, principal component analysis; PC, princ. Biochemical Pharmacology, 2001, 62, 547-553.	2.0	26
46	H2 purification through preferential oxidation of CO over ceria supported bimetallic Au-based catalysts. International Journal of Hydrogen Energy, 2016, 41, 19390-19398.	3.8	26
47	Mechanical milling: a sustainable route to induce structural transformations in MoS2 for applications in the treatment of contaminated water. Scientific Reports, 2019, 9, 974.	1.6	26
48	Aliphatic hydrocarbons in metasomatized gabbroic xenoliths from Hyblean diatremes (Sicily): Genesis in a serpentinite hydrothermal system. Chemical Geology, 2009, 258, 258-268.	1.4	25
49	CeO2 for Water Remediation: Comparison of Various Advanced Oxidation Processes. Catalysts, 2020, 10, 446.	1.6	25
50	Selective oxidation of CO in H2-rich stream over ZSM5 zeolites supported Ru catalysts: An investigation on the role of the support and the Ru particle size. Applied Catalysis A: General, 2016, 520, 82-91.	2.2	24
51	Performance of supported Ru-Cu bimetallic catalysts prepared from nitrate precursors. Catalysis Letters, 1990, 6, 77-83.	1.4	22
52	In vitro antitumor activities of 2,6-di-[2-(Heteroaryl)vinyl]pyridines and pyridiniums. Bioorganic and Medicinal Chemistry, 2002, 10, 2899-2904.	1.4	22
53	A multivariate insight into ionic liquids toxicities. RSC Advances, 2014, 4, 23985-24000.	1.7	22
54	The Role of the Support in the Oxidative Destruction of Chlorobenzene on Pt/Zeolite Catalysts: An FT-IR Investigation. Catalysis Letters, 2003, 91, 199-205.	1.4	20

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55	An investigation on the use of liquid phase photo-deposition for the preparation of supported Pt catalysts. Applied Catalysis A: General, 2006, 306, 51-57.	2.2	20
56	Liquid phase photo-deposition in the presence of unmodified Î²-cyclodextrin: A new approach for the preparation of supported Pd catalysts. Journal of Molecular Catalysis A, 2012, 353-354, 87-94.	4.8	20
57	Principal properties (PPs) as solvent descriptors for multivariate optimisation in organic synthesis: specific PPs for ethers. Arkivoc, 2003, 2002, 54-64.	0.3	20
58	Influence of the support on the catalytic properties of bimetallic Ru-Cu samples. Journal of Molecular Catalysis, 1989, 50, 67-80.	1.2	19
59	Genome-based identification of diagnostic molecular markers for human lung carcinomas by PLS-DA. Computational Biology and Chemistry, 2005, 29, 183-195.	1.1	19
60	Cyto- and enzyme toxicities of ionic liquids modelled on the basis of VolSurf+ descriptors and their principal properties. SAR and QSAR in Environmental Research, 2016, 27, 221-244.	1.0	19
61	Modelling the aquatic toxicity of ionic liquids by means of VolSurfin silicodescriptors. SAR and QSAR in Environmental Research, 2016, 27, 1-15.	1.0	18
62	High-Performing Au-Ag Bimetallic Catalysts Supported on Macro-Mesoporous CeO2 for Preferential Oxidation of CO in H2-Rich Gases. Catalysts, 2020, 10, 49.	1.6	18
63	Solar photocatalytic H2 production over CeO2-based catalysts: Influence of chemical and structural modifications. Catalysis Today, 2021, 380, 187-198.	2.2	18
64	Effect of precursor on the catalytic behaviour of Ru-Cu/MgO. Journal of Molecular Catalysis, 1990, 63, 55-63.	1.2	17
65	Bimetallic Ruî—¸Cu/SiO2 catalysts: Effect of total surface area on the catalytic properties. Journal of Molecular Catalysis, 1993, 83, 237-250.	1.2	17
66	Photocatalytic and photothermocatalytic applications of cerium oxide-based materials. , 2020, , 109-167.		17
67	Influence of iridium, rhenium and lanthanum on propane aromatization over platinum/ZSM-5 catalysts. Applied Catalysis A: General, 1991, 79, 29-40.	2.2	16
68	Ruâ€“Cu/SiO2catalysts: characterization by FTIR spectroscopy. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 2809-2813.	1.7	16
69	catalysts: characterization by FT-IR spectroscopy. Applied Surface Science, 1996, 99, 401-409.	3.1	16
70	Catalytic combustion of chlorobenzene over Pt/zeolite catalysts. Studies in Surface Science and Catalysis, 2002, , 1023-1030.	1.5	16
71	One-Pot Synthesis of TiO2-rGO Photocatalysts for the Degradation of Groundwater Pollutants. Materials, 2021, 14, 5938.	1.3	16
72	Cyclocarbonylation reactions of allylphenols and allylnaphthols catalyzed by Pd/C-1,4-bis(diphenylphosphine)butane. Applied Organometallic Chemistry, 2002, 16, 543-546.	1.7	15

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73	Dehydroisomerization of n-butane over H-Y zeolite supported Pt and Pt,Sn catalysts. Applied Catalysis A: General, 2004, 274, 151-157.	2.2	14
74	TiO₂ Colloids Laser-Treated in Ethanol for Photocatalytic H₂ Production. ACS Applied Nano Materials, 2020, 3, 9127-9140.	2.4	14
75	A QSPR approach to the ecotoxicity of ionic liquids (Vibrio fischeri) using VolSurf principal properties. Toxicology Research, 2016, 5, 1090-1096.	0.9	13
76	A Facile One-Pot Approach to the Synthesis of Gd-Eu Based Metal-Organic Frameworks and Applications to Sensing of Fe3+ and Cr2O72â^' Ions. Sensors, 2021, 21, 1679.	2.1	13
77	Principal properties (PPs) for lanthanide triflates as Lewis-acid catalysts. Journal of Chemometrics, 2006, 20, 418-424.	0.7	12
78	Kinetic of the Pyrolysis Process of Peach and Apricot Pits by TGA and DTGA Analysis. International Journal of Heat and Technology, 2016, 34, S553-S560.	0.3	12
79	Low-frequency Raman modes and atomic force microscopy for the size determination of catalytic gold clusters supported on iron oxide. Surface Science, 2001, 494, 75-82.	0.8	11
80	N-benzoxazol-2-yl-Nâ€²-1-(isoquinolin-3-yl-ethylidene)-hydrazine, a novel compound with antitumor activity, induces radicals and dissipation of mitochondrial membrane potential. Investigational New Drugs, 2009, 27, 189-202.	1.2	11
81	Propane aromatization over Ptâ^'Sn/ZSM-5 catalysts. Reaction Kinetics and Catalysis Letters, 1989, 40, 349-356.	0.6	10
82	Preparation of ceria and titania supported Pt catalysts through liquid phase photo-deposition. Journal of Molecular Catalysis A, 2010, 333, 100-108.	4.8	9
83	Direct and sensitized liquid phase photodeposition for the preparation of alumina supported Pd nanoparticles for applications to heterogeneous catalysis. Journal of Nanoparticle Research, 2011, 13, 3217-3228.	0.8	9
84	Catalytic and Photothermo-catalytic Applications of TiO2-CoOx Composites. Journal of Photocatalysis, 2020, 1, 3-15.	0.4	9
85	Prediction of ionic liquid's heat capacity by means of their in silico principal properties. RSC Advances, 2016, 6, 36085-36089.	1.7	8
86	Nanosponges based on self-assembled starfish-shaped cucurbit[6]urils functionalized with imidazolium arms. Chemical Communications, 2021, 57, 3664-3667.	2.2	8
87	A sustainable porous composite material based on loofah-halloysite for gas adsorption and drug delivery. Materials Chemistry Frontiers, 2022, 6, 2233-2243.	3.2	8
88	Propane aromatization over Pt-T1/ZSM-5. Applied Catalysis A: General, 1993, 103, 123-134.	2.2	7
89	Identification of genes involved in the sensitivity to antitumour drug 17-allylamino,17-demethoxygeldanamycin (17AAG). Molecular BioSystems, 2006, 2, 231.	2.9	7
90	Hydrocarbons in phlogopite from Kasenyi kamafugitic rocks (SW Uganda): cross-correlated AFM, confocal microscopy and Raman imaging. Scientific Reports, 2017, 7, 40663.	1.6	7

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91	Bimetallic Ruâ^'Cu over ZSM5 zeolites in propane hydrogenolysis. Reaction Kinetics and Catalysis Letters, 1992, 48, 367-374.	0.6	6
92	Influence of lead on propane aromatization over Pt/ZSM5 catalysts. Reaction Kinetics and Catalysis Letters, 1990, 41, 153-159.	0.6	5
93	One-step conversion of n-butane to isobutene over H-beta supported Pt and Pt,M (M=Cu, In, Sn) catalysts: An investigation on the role of the second metal. Journal of Molecular Catalysis A, 2006, 260, 109-114.	4.8	5
94	Pyrite and Organic Compounds Coexisting in Intrusive Mafic Xenoliths (Hyblean Plateau, Sicily): Implications for Subsurface Abiogenesis. Origins of Life and Evolution of Biospheres, 2019, 49, 19-47.	0.8	5
95	Removal of Phthalates from Water by Unconventional Laâ€based/WO₃ Photocatalysts. European Journal of Inorganic Chemistry, 2022, 2022, .	1.0	5
96	Design of nano-sized FeOx and Au/FeOx catalysts for total oxidation of VOC and preferential oxidation of CO. Studies in Surface Science and Catalysis, 2010, 175, 785-788.	1.5	4
97	Modeling from Theory and Modeling from Data: Complementary or Alternative Approaches? The Case of Ionic Liquids. ChemistryOpen, 2017, 6, 90-101.	0.9	4
98	Hydrogenolysis reactions during propane aromatization over Pt/ZSM-5. Reaction Kinetics and Catalysis Letters, 1992, 46, 255-261.	0.6	3
99	Identification of genes involved in radiationâ€induced G₁ arrest. Journal of Chemometrics, 2007, 21, 398-405.	0.7	3
100	Cerium and cerium oxide: A brief introduction. , 2020, , 1-12.		3
101	Catalytic applications of TiO2. , 2021, , 637-679.		3
102	Frontispiece: Roomâ€Temperature Laser Synthesis in Liquid of Oxide, Metalâ€Oxide Coreâ€Shells, and Doped Oxide Nanoparticles. Chemistry - A European Journal, 2020, 26, .	1.7	2
103	MODDE, Version 5.0, available from UMETRICS AB, European Office: Box 7960 SE-90719 UMEÃ..., Sweden (telephone: +46-90-184800, fax: +46-90-184899, Web: http://www.umetrics.com); North American Office:		

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109	Photocatalytic H2 Production on Au/TiO2: Effect of Au Photodeposition on Different TiO2 Crystalline Phases. J, 2022, 5, 92-104.	0.6	1
110	Effect of Catalyst Preparation on the Performance of Supported Ru-Cu Bimetallic Systems. Studies in Surface Science and Catalysis, 1993, , 1871-1874.	1.5	0
111	Slow pyrolysis kinetics of apricots stones by Thermogravimetric Analysis. , 2016, , .		0
112	Preface to the volume. , 2020, , xix-xx.		0
113	Laser-Induced Synthesis and Processing of Nanoparticles in the Liquid Phase for Biosensing and Catalysis. Springer Series in Materials Science, 2020, , 133-162.	0.4	0