

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	A solar photothermocatalytic approach for the CO ₂ conversion: Investigation of different synergisms on CoO-CuO/brookite TiO ₂ -CeO ₂ catalysts. <i>Chemical Engineering Journal</i> , 2022, 428, 131249.	6.6	39
2	Photocatalytic H ₂ Production on Au/TiO ₂ : Effect of Au Photodeposition on Different TiO ₂ Crystalline Phases. <i>J</i> , 2022, 5, 92-104.	0.6	1
3	Removal of Phthalates from Water by Unconventional La ³⁺ -based/WO ₃ Photocatalysts. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	1.0	5
4	A sustainable porous composite material based on loofah-halloysite for gas adsorption and drug delivery. <i>Materials Chemistry Frontiers</i> , 2022, 6, 2233-2243.	3.2	8
5	Catalytic applications of TiO ₂ . , 2021, , 637-679.		3
6	Nanosponges based on self-assembled starfish-shaped cucurbit[6]urils functionalized with imidazolium arms. <i>Chemical Communications</i> , 2021, 57, 3664-3667.	2.2	8
7	A Facile One-Pot Approach to the Synthesis of Gd-Eu Based Metal-Organic Frameworks and Applications to Sensing of Fe ³⁺ and Cr ₂ O ₇ ²⁻ Ions. <i>Sensors</i> , 2021, 21, 1679.	2.1	13
8	Degradation of the O-phenylphenol Fungicide in Water by Unconventional CeO ₂ -WO ₃ Photocatalysts. <i>Journal of Photocatalysis</i> , 2021, 2, 234-242.	0.4	1
9	Solar photocatalytic H ₂ production over CeO ₂ -based catalysts: Influence of chemical and structural modifications. <i>Catalysis Today</i> , 2021, 380, 187-198.	2.2	18
10	One-Pot Synthesis of TiO ₂ -rGO Photocatalysts for the Degradation of Groundwater Pollutants. <i>Materials</i> , 2021, 14, 5938.	1.3	16
11	Cerium and cerium oxide: A brief introduction. , 2020, , 1-12.		3
12	Photocatalytic and photothermocatalytic applications of cerium oxide-based materials. , 2020, , 109-167.		17
13	Preface to the volume. , 2020, , xix-xx.		0
14	Frontispiece: Room-Temperature Laser Synthesis in Liquid of Oxide, Metal-Oxide Core-Shell, and Doped Oxide Nanoparticles. <i>Chemistry - A European Journal</i> , 2020, 26, .	1.7	2
15	Exploring the Photothermo-Catalytic Performance of Brookite TiO ₂ -CeO ₂ Composites. <i>Catalysts</i> , 2020, 10, 765.	1.6	34
16	TiO ₂ Colloids Laser-Treated in Ethanol for Photocatalytic H ₂ Production. <i>ACS Applied Nano Materials</i> , 2020, 3, 9127-9140.	2.4	14
17	CeO ₂ for Water Remediation: Comparison of Various Advanced Oxidation Processes. <i>Catalysts</i> , 2020, 10, 446.	1.6	25
18	High-Performing Au-Ag Bimetallic Catalysts Supported on Macro-Mesoporous CeO ₂ for Preferential Oxidation of CO in H ₂ -Rich Gases. <i>Catalysts</i> , 2020, 10, 49.	1.6	18

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19	Room-Temperature Laser Synthesis in Liquid of Oxide, Metal-Oxide Core-Shell, and Doped Oxide Nanoparticles. <i>Chemistry - A European Journal</i> , 2020, 26, 9206-9242.	1.7	189
20	Catalytic and Photothermo-catalytic Applications of TiO ₂ -CoO _x Composites. <i>Journal of Photocatalysis</i> , 2020, 1, 3-15.	0.4	9
21	Laser-Induced Synthesis and Processing of Nanoparticles in the Liquid Phase for Biosensing and Catalysis. <i>Springer Series in Materials Science</i> , 2020, , 133-162.	0.4	0
22	Pyrite and Organic Compounds Coexisting in Intrusive Mafic Xenoliths (Hyblean Plateau, Sicily): Implications for Subsurface Abiogenesis. <i>Origins of Life and Evolution of Biospheres</i> , 2019, 49, 19-47.	0.8	5
23	Mechanical milling: a sustainable route to induce structural transformations in MoS ₂ for applications in the treatment of contaminated water. <i>Scientific Reports</i> , 2019, 9, 974.	1.6	26
24	Efficient H ₂ production by photocatalytic water splitting under UV or solar light over variously modified TiO ₂ -based catalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 14796-14807.	3.8	38
25	Photocatalytic H ₂ production over inverse opal TiO ₂ catalysts. <i>Catalysis Today</i> , 2019, 321-322, 113-119.	2.2	29
26	Data-Driven Modelling of Gas Solubility in Ionic Liquids Using Principal Properties as Orthogonal Descriptors. <i>ChemistrySelect</i> , 2018, 3, 2181-2184.	0.7	1
27	Visible light photocatalytic activity of macro-mesoporous TiO ₂ -CeO ₂ inverse opals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 352, 25-34.	2.0	60
28	Carbon supported bimetallic Ru-Co catalysts for H ₂ production through NaBH ₄ and NH ₃ BH ₃ hydrolysis. <i>International Journal of Energy Research</i> , 2018, 42, 1183-1195.	2.2	47
29	Ru-Pd Bimetallic Catalysts Supported on CeO ₂ -MnOX Oxides as Efficient Systems for H ₂ Purification through CO Preferential Oxidation. <i>Catalysts</i> , 2018, 8, 203.	1.6	29
30	Effect of the addition of different doping agents on visible light activity of porous TiO ₂ photocatalysts. <i>Molecular Catalysis</i> , 2018, 455, 108-120.	1.0	42
31	Hydrocarbons in phlogopite from Kasenyi kamafugitic rocks (SW Uganda): cross-correlated AFM, confocal microscopy and Raman imaging. <i>Scientific Reports</i> , 2017, 7, 40663.	1.6	7
32	Modeling from Theory and Modeling from Data: Complementary or Alternative Approaches? The Case of Ionic Liquids. <i>ChemistryOpen</i> , 2017, 6, 90-101.	0.9	4
33	Laser processing of TiO ₂ colloids for an enhanced photocatalytic water splitting activity. <i>Journal of Colloid and Interface Science</i> , 2017, 489, 131-137.	5.0	43
34	Gas principal properties as new compact descriptors for data-driven gas solubility modelling. <i>Arkivoc</i> , 2017, 2017, 356-369.	0.3	1
35	Smart Design of Sustainable and Efficient ILs. <i>RSC Smart Materials</i> , 2017, , 168-195.	0.1	1
36	Au/TiO ₂ -CeO ₂ Catalysts for Photocatalytic Water Splitting and VOCs Oxidation Reactions. <i>Catalysts</i> , 2016, 6, 121.	1.6	63

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37	Selective oxidation of CO in H ₂ -rich stream over ZSM5 zeolites supported Ru catalysts: An investigation on the role of the support and the Ru particle size. <i>Applied Catalysis A: General</i> , 2016, 520, 82-91.	2.2	24
38	A QSPR approach to the ecotoxicity of ionic liquids (<i>Vibrio fischeri</i>) using VolSurf principal properties. <i>Toxicology Research</i> , 2016, 5, 1090-1096.	0.9	13
39	Photoactivity of hierarchically nanostructured ZnO@PES fibre mats for water treatments. <i>RSC Advances</i> , 2016, 6, 42778-42785.	1.7	37
40	Prediction of ionic liquid's heat capacity by means of their in silico principal properties. <i>RSC Advances</i> , 2016, 6, 36085-36089.	1.7	8
41	Slow pyrolysis kinetics of apricots stones by Thermogravimetric Analysis. , 2016, , .		0
42	H ₂ purification through preferential oxidation of CO over ceria supported bimetallic Au-based catalysts. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 19390-19398.	3.8	26
43	A comparison between photocatalytic and catalytic oxidation of 2-Propanol over Au/TiO ₂ @CeO ₂ catalysts. <i>Journal of Molecular Catalysis A</i> , 2016, 415, 56-64.	4.8	43
44	Facile synthesis of Ni nanofoam for flexible and low-cost non-enzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 764-771.	4.0	75
45	Cyto- and enzyme toxicities of ionic liquids modelled on the basis of VolSurf+ descriptors and their principal properties. <i>SAR and QSAR in Environmental Research</i> , 2016, 27, 221-244.	1.0	19
46	Modelling the aquatic toxicity of ionic liquids by means of VolSurf<i>in silico</i> descriptors. <i>SAR and QSAR in Environmental Research</i> , 2016, 27, 1-15.	1.0	18
47	Kinetic of the Pyrolysis Process of Peach and Apricot Pits by TGA and DTGA Analysis. <i>International Journal of Heat and Technology</i> , 2016, 34, S553-S560.	0.3	12
48	Au@Ag/CeO ₂ and Au@Cu/CeO ₂ Catalysts for Volatile Organic Compounds Oxidation and CO Preferential Oxidation. <i>Catalysis Letters</i> , 2015, 145, 1691-1702.	1.4	62
49	A multivariate insight into ionic liquids toxicities. <i>RSC Advances</i> , 2014, 4, 23985-24000.	1.7	22
50	Liquid phase photo-deposition in the presence of unmodified β -cyclodextrin: A new approach for the preparation of supported Pd catalysts. <i>Journal of Molecular Catalysis A</i> , 2012, 353-354, 87-94.	4.8	20
51	Supported gold catalysts for the total oxidation of volatile organic compounds. <i>Applied Catalysis B: Environmental</i> , 2012, 125, 222-246.	10.8	289
52	Role of the Support and the Ru Precursor on the Performance of Ru/Carbon Catalysts Towards H ₂ Production Through NaBH ₄ Hydrolysis. <i>Catalysis Letters</i> , 2012, 142, 882-888.	1.4	38
53	Selective oxidation of CO in H ₂ -rich stream over Au/CeO ₂ and Cu/CeO ₂ catalysts: An insight on the effect of preparation method and catalyst pretreatment. <i>Applied Catalysis A: General</i> , 2012, 417-418, 66-75.	2.2	51
54	Asphaltene-bearing mantle xenoliths from Hyblean diatremes, Sicily. <i>Lithos</i> , 2011, 125, 956-968.	0.6	27

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55	Direct and sensitized liquid phase photodeposition for the preparation of alumina supported Pd nanoparticles for applications to heterogeneous catalysis. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3217-3228.	0.8	9
56	Design of nano-sized FeOx and Au/FeOx catalysts supported on CeO2 for total oxidation of VOC. <i>Applied Catalysis A: General</i> , 2011, 395, 10-18.	2.2	59
57	Hydrogen production through NaBH4 hydrolysis over supported Ru catalysts: An insight on the effect of the support and the ruthenium precursor. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3817-3826.	3.8	63
58	Ceria supported group IB metal catalysts for the combustion of volatile organic compounds and the preferential oxidation of CO. <i>Applied Catalysis B: Environmental</i> , 2010, 101, 109-117.	10.8	116
59	Preparation of ceria and titania supported Pt catalysts through liquid phase photo-deposition. <i>Journal of Molecular Catalysis A</i> , 2010, 333, 100-108.	4.8	9
60	Design of nano-sized FeOx and Au/FeOx catalysts for total oxidation of VOC and preferential oxidation of CO. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 785-788.	1.5	4
61	N-benzoxazol-2-yl-N ² -1-(isoquinolin-3-yl-ethylidene)-hydrazine, a novel compound with antitumor activity, induces radicals and dissipation of mitochondrial membrane potential. <i>Investigational New Drugs</i> , 2009, 27, 189-202.	1.2	11
62	Combined effect of noble metals (Pd, Au) and support properties on HDS activity of Co/SiO2 catalysts. <i>Applied Catalysis A: General</i> , 2009, 353, 296-304.	2.2	28
63	Supported silver catalysts prepared by deposition in aqueous solution of Ag nanoparticles obtained through a photochemical approach. <i>Applied Catalysis A: General</i> , 2009, 367, 138-145.	2.2	30
64	Aliphatic hydrocarbons in metasomatized gabbroic xenoliths from Hyblean diatremes (Sicily): Genesis in a serpentinite hydrothermal system. <i>Chemical Geology</i> , 2009, 258, 258-268.	1.4	25
65	The role of acidity in the decomposition of 1,2-dichlorobenzene over TiO2-based V2O5/WO3 catalysts. <i>Applied Catalysis A: General</i> , 2008, 341, 18-25.	2.2	82
66	Selective oxidation of CO in H2-rich stream over gold/iron oxide: An insight on the effect of catalyst pretreatment. <i>Journal of Molecular Catalysis A</i> , 2008, 284, 24-32.	4.8	51
67	Identification of genes involved in radiation-induced G ₁ arrest. <i>Journal of Chemometrics</i> , 2007, 21, 398-405.	0.7	3
68	Identification of genes involved in the sensitivity to antitumour drug 17-allylamino,17-demethoxygeldanamycin (17AAG). <i>Molecular BioSystems</i> , 2006, 2, 231.	2.9	7
69	An investigation on the use of liquid phase photo-deposition for the preparation of supported Pt catalysts. <i>Applied Catalysis A: General</i> , 2006, 306, 51-57.	2.2	20
70	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. <i>Journal of Molecular Catalysis A</i> , 2006, 260, 109-114.	4.8	5
71	Principal properties (PPs) for lanthanide triflates as Lewis-acid catalysts. <i>Journal of Chemometrics</i> , 2006, 20, 418-424.	0.7	12
72	Genome-based identification of diagnostic molecular markers for human lung carcinomas by PLS-DA. <i>Computational Biology and Chemistry</i> , 2005, 29, 183-195.	1.1	19

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73	Adsorption of Organic Compounds onto Activated Carbons from Recycled Vegetables Biomass. <i>Annali Di Chimica</i> , 2004, 94, 547-554.	0.6	1
74	Potentialities of multivariate approaches in genome-based cancer research: identification of candidate genes for new diagnostics by PLS discriminant analysis. <i>Journal of Chemometrics</i> , 2004, 18, 125-132.	0.7	49
75	Dehydroisomerization of n-butane over H-Y zeolite supported Pt and Pt,Sn catalysts. <i>Applied Catalysis A: General</i> , 2004, 274, 151-157.	2.2	14
76	The Role of the Support in the Oxidative Destruction of Chlorobenzene on Pt/Zeolite Catalysts: An FT-IR Investigation. <i>Catalysis Letters</i> , 2003, 91, 199-205.	1.4	20
77	Catalytic combustion of volatile organic compounds on gold/cerium oxide catalysts. <i>Applied Catalysis B: Environmental</i> , 2003, 40, 43-49.	10.8	403
78	Pt catalysts supported on H-type zeolites for the catalytic combustion of chlorobenzene. <i>Applied Catalysis B: Environmental</i> , 2003, 45, 117-125.	10.8	117
79	Effect of the Al/Si atomic ratio on surface and structural properties of sol-gel prepared aluminosilicates. <i>Journal of Solid State Chemistry</i> , 2003, 174, 482-488.	1.4	63
80	A Bioinformatic Approach to the Identification of Candidate Genes for the Development of New Cancer Diagnostics. <i>Biological Chemistry</i> , 2003, 384, 321-327.	1.2	70
81	Principal properties (PPs) as solvent descriptors for multivariate optimisation in organic synthesis: specific PPs for ethers. <i>Arkivoc</i> , 2003, 2002, 54-64.	0.3	20
82	Catalytic combustion of chlorobenzene over Pt/zeolite catalysts. <i>Studies in Surface Science and Catalysis</i> , 2002, , 1023-1030.	1.5	16
83	Cyclocarbonylation reactions of allylphenols and allylnaphthols catalyzed by Pd/C-1,4-bis(diphenylphosphine)butane. <i>Applied Organometallic Chemistry</i> , 2002, 16, 543-546.	1.7	15
84	In vitro antitumor activities of 2,6-di-[2-(Heteroaryl)vinyl]pyridines and pyridiniums. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 2899-2904.	1.4	22
85	Ni-Ru bimetallic catalysts for the CO ₂ reforming of methane. <i>Applied Catalysis A: General</i> , 2002, 225, 1-9.	2.2	161
86	Selective hydrogenation of phenol to cyclohexanone over supported Pd and Pd-Ca catalysts: an investigation on the influence of different supports and Pd precursors. <i>Applied Catalysis A: General</i> , 2002, 235, 21-31.	2.2	116
87	Catalytic combustion of volatile organic compounds over group IB metal catalysts on Fe ₂ O ₃ . <i>Catalysis Communications</i> , 2001, 2, 229-232.	1.6	132
88	Low-frequency Raman modes and atomic force microscopy for the size determination of catalytic gold clusters supported on iron oxide. <i>Surface Science</i> , 2001, 494, 75-82.	0.8	11
89	MODDE, Version 5.0, available from UMETRICS AB, European Office: Box 7960 SE-90719 UMEÅ..., Sweden (telephone: +46-90-184800, fax: +46-90-184899, Web: http://www.umetrics.com); North American Office:		

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91	Influence of catalyst pretreatments on volatile organic compounds oxidation over gold/iron oxide. Applied Catalysis B: Environmental, 2001, 34, 277-285.	10.8	160
92	Catalytic combustion of volatile organic compounds on gold/iron oxide catalysts. Applied Catalysis B: Environmental, 2000, 28, 245-251.	10.8	215
93	CO ₂ reforming of methane over Ni–Ru and Ni–Pd bimetallic catalysts. Catalysis Letters, 1999, 59, 21-26.	1.4	157
94	Influence of the support on CO ₂ methanation over Ru catalysts: an FT-IR study. Catalysis Letters, 1998, 51, 41-45.	1.4	82
95	Effect of the acid–base properties of Pd–Ca/Al ₂ O ₃ catalysts on the selective hydrogenation of phenol to cyclohexanone: FT-IR and TPD characterization. Applied Surface Science, 1998, 136, 311-320.	3.1	34
96	FT-IR study of Au/Fe ₂ O ₃ catalysts for CO oxidation at low temperature. Catalysis Letters, 1997, 47, 273-276.	1.4	170
97	Activated Carbons: In Vitro Affinity for Aflatoxin B ₁ and Relation of Adsorption Ability to Physicochemical Parameters. Journal of Food Protection, 1996, 59, 545-550.	0.8	32
98	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
99	catalysts: characterization by FT-IR spectroscopy. Applied Surface Science, 1996, 99, 401-409.	3.1	16
100	An investigation of the mechanism of the selective catalytic reduction of NO on various metal/ZSM-5 catalysts: reactions of H ₂ /NO mixtures. Catalysis Letters, 1994, 27, 177-186.	1.4	44
101	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
102	Ru–Cu/SiO ₂ catalysts: characterization by FTIR spectroscopy. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 2809-2813.	1.7	16
103	Bimetallic Ru–Cu/SiO ₂ catalysts: Effect of total surface area on the catalytic properties. Journal of Molecular Catalysis, 1993, 83, 237-250.	1.2	17
104	Propane aromatization over Pt-Tl/ZSM-5. Applied Catalysis A: General, 1993, 103, 123-134.	2.2	7
105	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
106	Hydrogenolysis reactions during propane aromatization over Pt/ZSM-5. Reaction Kinetics and Catalysis Letters, 1992, 46, 255-261.	0.6	3
107	Bimetallic Ru–Cu over ZSM5 zeolites in propane hydrogenolysis. Reaction Kinetics and Catalysis Letters, 1992, 48, 367-374.	0.6	6
108	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

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109	Influence of lead on propane aromatization over Pt/ZSM5 catalysts. Reaction Kinetics and Catalysis Letters, 1990, 41, 153-159.	0.6	5
110	Performance of supported Ru-Cu bimetallic catalysts prepared from nitrate precursors. Catalysis Letters, 1990, 6, 77-83.	1.4	22
111	Effect of precursor on the catalytic behaviour of Ru-Cu/MgO. Journal of Molecular Catalysis, 1990, 63, 55-63.	1.2	17
112	Influence of the support on the catalytic properties of bimetallic Ru-Cu samples. Journal of Molecular Catalysis, 1989, 50, 67-80.	1.2	19
113	Propane aromatization over Pt ^{δ+} Sn/ZSM-5 catalysts. Reaction Kinetics and Catalysis Letters, 1989, 40, 349-356.	0.6	10