

Nunzio Russo

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

4,605
citations

40
h-index

65
g-index

111
ext. papers

5,323
ext. citations

8.4
avg, IF

5.99
L-index

#	Paper	IF	Citations
106	Mesoporous manganese oxides prepared by solution combustion synthesis as catalysts for the total oxidation of VOCs. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 277-287	21.8	319
105	The role of suprafacial oxygen in some perovskites for the catalytic combustion of soot. <i>Journal of Catalysis</i> , 2003 , 217, 367-375	7.3	225
104	A review on the catalytic combustion of soot in Diesel particulate filters for automotive applications: From powder catalysts to structured reactors. <i>Applied Catalysis A: General</i> , 2016 , 509, 75-96 ^{5.1}	5.1	209
103	Syngas production from electrochemical reduction of CO ₂ : current status and prospective implementation. <i>Green Chemistry</i> , 2017 , 19, 2326-2346	10	190
102	Nanostructured ceria-based catalysts for soot combustion: Investigations on the surface sensitivity. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 742-751	21.8	186
101	Recent Advances in the BiVO ₄ Photocatalyst for Sun-Driven Water Oxidation: Top-Performing Photoanodes and Scale-Up Challenges. <i>Catalysts</i> , 2017 , 7, 13	4	158
100	N ₂ O catalytic decomposition over various spinel-type oxides. <i>Catalysis Today</i> , 2007 , 119, 228-232	5.3	133
99	Green-synthesized W- and Mo-doped BiVO ₄ oriented along the {0 4 0} facet with enhanced activity for the sun-driven water oxidation. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 630-636	21.8	128
98	Investigations into nanostructured ceria-zirconia catalysts for soot combustion. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 271-282	21.8	114
97	BiVO ₄ as photocatalyst for solar fuels production through water splitting: A short review. <i>Applied Catalysis A: General</i> , 2015 , 504, 158-170	5.1	113
96	Photocatalytic abatement of VOCs by novel optimized TiO ₂ nanoparticles. <i>Chemical Engineering Journal</i> , 2011 , 166, 138-149	14.7	97
95	Lanthanum cobaltite catalysts for diesel soot combustion. <i>Applied Catalysis B: Environmental</i> , 2008 , 83, 85-95	21.8	96
94	Cerium-copper oxides prepared by solution combustion synthesis for total oxidation reactions: From powder catalysts to structured reactors. <i>Applied Catalysis B: Environmental</i> , 2017 , 205, 455-468	21.8	82
93	Novel mesoporous silica supported ZnO adsorbents for the desulphurization of biogas at low temperatures. <i>Chemical Engineering Journal</i> , 2012 , 188, 222-232	14.7	79
92	Evaluation of the charge transfer kinetics of spin-coated BiVO ₄ thin films for sun-driven water photoelectrolysis. <i>Applied Catalysis B: Environmental</i> , 2016 , 190, 66-74	21.8	77
91	Nanostructured ceria-praseodymia catalysts for diesel soot combustion. <i>Applied Catalysis B: Environmental</i> , 2016 , 197, 125-137	21.8	77
90	Nanostructured ceria-zirconia catalysts for CO oxidation: Study on surface properties and reactivity. <i>Applied Catalysis B: Environmental</i> , 2016 , 197, 35-46	21.8	72

89	Synthesis and catalytic properties of CeO ₂ and Co/CeO ₂ nanofibres for diesel soot combustion. <i>Catalysis Today</i> , 2012 , 184, 279-287	5.3	65
88	La _{0.1} Co _{0.9} perovskite catalysts for diesel particulate combustion. <i>Catalysis Today</i> , 2006 , 114, 31-39	5.3	63
87	Green-Synthesized BiVO ₄ Oriented along {040} Facets for Visible-Light-Driven Ethylene Degradation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2640-2646	3.9	61
86	Photocatalytic Degradation of Ethylene Emitted by Fruits with TiO ₂ Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 2536-2543	3.9	60
85	Evaluation of the Parameters Affecting the Visible-Light-Induced Photocatalytic Activity of Monoclinic BiVO ₄ for Water Oxidation. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 17414-17418	3.9	59
84	CuO nanoparticles supported by ceria for NO _x -assisted soot oxidation: insight into catalytic activity and sintering. <i>Applied Catalysis B: Environmental</i> , 2017 , 216, 41-58	21.8	58
83	Novel nanostructured-TiO ₂ materials for the photocatalytic reduction of CO ₂ greenhouse gas to hydrocarbons and syngas. <i>Fuel</i> , 2015 , 149, 55-65	7.1	58
82	N ₂ O decomposition by mesoporous silica supported Rh catalysts. <i>Journal of Hazardous Materials</i> , 2012 , 211-212, 255-65	12.8	57
81	CeO ₂ -based catalysts with engineered morphologies for soot oxidation to enhance soot-catalyst contact. <i>Nanoscale Research Letters</i> , 2014 , 9, 254	5	54
80	Effect of active species mobility on soot-combustion over Cs-V catalysts. <i>AIChE Journal</i> , 2003 , 49, 2173-2180	3.8	53
79	Elucidation of important parameters of BiVO ₄ responsible for photo-catalytic O ₂ evolution and insights about the rate of the catalytic process. <i>Chemical Engineering Journal</i> , 2014 , 245, 124-132	14.7	52
78	High catalytic activity of SCS-synthesized ceria towards diesel soot combustion. <i>Applied Catalysis B: Environmental</i> , 2006 , 69, 85-92	21.8	51
77	Catalysis in Diesel engine NO _x aftertreatment: a review 2015 , 1, 155-173		50
76	Ceria-supported small Pt and Pt ₃ Sn nanoparticles for NO _x -assisted soot oxidation. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 295-310	21.8	48
75	In situ Raman analyses of the soot oxidation reaction over nanostructured ceria-based catalysts. <i>Scientific Reports</i> , 2019 , 9, 3875	4.9	48
74	Photo-catalytic activity of BiVO ₄ thin-film electrodes for solar-driven water splitting. <i>Applied Catalysis A: General</i> , 2015 , 504, 266-271	5.1	48
73	Study on the CO Oxidation over Ceria-Based Nanocatalysts. <i>Nanoscale Research Letters</i> , 2016 , 11, 165	5	47
72	Low Temperature NH ₃ Selective Catalytic Reduction of NO _x over Substituted MnCr ₂ O ₄ Spinel-Oxide Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 6668-6672	3.9	46

71	Mesoporous silica supported Rh catalysts for high concentration N ₂ O decomposition. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 158-168	21.8	42
70	Removal of NO _x and diesel soot over catalytic traps based on spinel-type oxides. <i>Powder Technology</i> , 2008 , 180, 74-78	5.2	42
69	Nanostructured equimolar ceria-praseodymia for NO _x -assisted soot oxidation: Insight into Pr dominance over Pt nanoparticles and metal-support interaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 147-161	21.8	41
68	Contact dynamics for a solid-solid reaction mediated by gas-phase oxygen: Study on the soot oxidation over ceria-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 96-107	21.8	41
67	Insights on the role of Bi ₂ O ₃ /Bi ₅ O ₇ NO ₃ heterostructures synthesized by a scalable solid-state method for the sunlight-driven photocatalytic degradation of dyes. <i>Catalysis Today</i> , 2019 , 321-322, 135-145	5.2	41
66	NO SCR reduction by hydrogen generated in line on perovskite-type catalysts for automotive diesel exhaust gas treatment. <i>Chemical Engineering Science</i> , 2010 , 65, 120-127	4.4	38
65	A novel ZnO-based adsorbent for biogas purification in H ₂ production systems. <i>Chemical Engineering Journal</i> , 2011 , 176-177, 272-279	14.7	37
64	Development of modified KIT-6 and SBA-15-spherical supported Rh catalysts for N ₂ O abatement: From powder to monolith supported catalysts. <i>Chemical Engineering Journal</i> , 2014 , 238, 198-205	14.7	36
63	Ceria-based nanomaterials as catalysts for CO oxidation and soot combustion: Effect of Zr-Pr doping and structural properties on the catalytic activity. <i>AIChE Journal</i> , 2017 , 63, 216-225	3.6	36
62	Nanostructured TiO ₂ /KIT-6 catalysts for improved photocatalytic reduction of CO ₂ to tunable energy products. <i>Applied Catalysis B: Environmental</i> , 2015 , 170-171, 53-65	21.8	36
61	Studies on the activity and deactivation of novel optimized TiO ₂ nanoparticles for the abatement of VOCs. <i>Chemical Engineering Journal</i> , 2011 , 175, 330-340	14.7	36
60	A multifunctional filter for the simultaneous removal of fly-ash and NO _x from incinerator flue gases. <i>Chemical Engineering Science</i> , 2004 , 59, 5329-5336	4.4	34
59	A screening study on the activation energy of vanadate-based catalysts for diesel soot combustion. <i>Catalysis Letters</i> , 2000 , 69, 207-215	2.8	34
58	Novel Mn/Cu-Containing CeO ₂ Nanopolyhedra for the Oxidation of CO and Diesel Soot: Effect of Dopants on the Nanostructure and Catalytic Activity. <i>Catalysis Letters</i> , 2018 , 148, 298-311	2.8	33
57	Detailed Investigation on Soot Particle Size Distribution during DPF Regeneration, using Standard and Bio-Diesel Fuels. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 2650-2658	3.9	32
56	Diesel particulate abatement via catalytic traps. <i>Catalysis Today</i> , 2000 , 60, 33-41	5.3	32
55	Environmental issues regarding CO ₂ and recent strategies for alternative fuels through photocatalytic reduction with titania-based materials. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 3934-3953	6.8	30
54	Novel Ti-KIT-6 material for the photocatalytic reduction of carbon dioxide to methane. <i>Catalysis Communications</i> , 2013 , 36, 58-62	3.2	29

53	Influence of the MgCo ₂ O ₄ Preparation Method on N ₂ O Catalytic Decomposition. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 2622-2627	3.9	29
52	Nanostructured Ceria-Based Materials: Effect of the Hydrothermal Synthesis Conditions on the Structural Properties and Catalytic Activity. <i>Catalysts</i> , 2017 , 7, 174	4	28
51	Catalytic Oxidation of CO and Soot over Ce-Zr-Pr Mixed Oxides Synthesized in a Multi-Inlet Vortex Reactor: Effect of Structural Defects on the Catalytic Activity. <i>Nanoscale Research Letters</i> , 2016 , 11, 494	5	28
50	Chemically induced porosity on BiVO ₄ films produced by double magnetron sputtering to enhance the photo-electrochemical response. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 17821-7	3.6	27
49	Optimization of BiVO ₄ photoelectrodes made by electrodeposition for sun-driven water oxidation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 605-618	6.7	27
48	Single BiFeO ₃ and mixed BiFeO ₃ /Fe ₂ O ₃ /Bi ₂ Fe ₄ O ₉ ferromagnetic photocatalysts for solar light driven water oxidation and dye pollutants degradation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 63, 437-448	6.3	26
47	CO and Soot Oxidation over Ce-Zr-Pr Oxide Catalysts. <i>Nanoscale Research Letters</i> , 2016 , 11, 278	5	25
46	The effect of crystal facets and induced porosity on the performance of monoclinic BiVO ₄ for the enhanced visible-light driven photocatalytic abatement of methylene blue. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103265	6.8	22
45	Synthesis, Characterization, and Thiophene Hydrodesulfurization Activity of Novel Macroporous and Mesomacroporous Carbon. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 2530-2535	3.9	22
44	Towards practical application of lanthanum ferrite catalysts for NO reduction with H ₂ . <i>Chemical Engineering Journal</i> , 2009 , 154, 348-354	14.7	22
43	Modified KIT-6 and SBA-15-spherical supported metal catalysts for N ₂ O decomposition. <i>Journal of Environmental Chemical Engineering</i> , 2013 , 1, 164-174	6.8	20
42	How to make sustainable CO ₂ conversion to Methanol: Thermocatalytic versus electrocatalytic technology. <i>Chemical Engineering Journal</i> , 2021 , 417, 127973	14.7	20
41	VOCs photocatalytic abatement using nanostructured titania-silica catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 3100-3107	6.8	19
40	Synthesis and characterization of Ce and Er doped ZrO ₂ nanoparticles as solar light driven photocatalysts. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 896-904	5.7	19
39	New optimized mesoporous silica incorporated isolated Ti materials towards improved photocatalytic reduction of carbon dioxide to renewable fuels. <i>Chemical Engineering Journal</i> , 2015 , 278, 279-292	14.7	18
38	Appraisal of a De-NO _x System Based on H ₂ for Light-Duty Diesel Engine Vehicles. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 10323-10333	3.9	17
37	Power and Hydrogen Co-generation from Biogas. <i>Energy & Fuels</i> , 2010 , 24, 4743-4747	4.1	16
36	Cerium-Copper-Manganese Oxides Synthesized via Solution Combustion Synthesis (SCS) for Total Oxidation of VOCs. <i>Catalysis Letters</i> , 2020 , 150, 1821-1840	2.8	15

35	Wet Air Oxidation of Industrial Lignin Case Study: Influence of the Dissolution Pretreatment and Perovskite-type Oxides. <i>Waste and Biomass Valorization</i> , 2018 , 9, 2165-2179	3.2	14
34	Kinetic Study of Diesel Soot Combustion with Perovskite Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7584-7589	3.9	14
33	Insights Into the Sunlight-Driven Water Oxidation by Ce and Er-Doped ZrO. <i>Frontiers in Chemistry</i> , 2018 , 6, 368	5	13
32	Heterogeneous mechanism of NO _x -assisted soot oxidation in the passive regeneration of a bench-scale diesel particulate filter catalyzed with nanostructured equimolar ceria-praseodymia. <i>Applied Catalysis A: General</i> , 2019 , 583, 117136	5.1	13
31	Particle Number, Size and Mass Emissions of Different Biodiesel Blends Versus ULSD from a Small Displacement Automotive Diesel Engine 2011 ,		13
30	CO ₂ valorisation towards alcohols by Cu-based electrocatalysts: challenges and perspectives. <i>Green Chemistry</i> , 2021 , 23, 1896-1920	10	13
29	New nanostructured silica incorporated with isolated Ti material for the photocatalytic conversion of CO ₂ to fuels. <i>Nanoscale Research Letters</i> , 2014 , 9, 158	5	11
28	Photocatalytic Abatement of Volatile Organic Compounds by TiO Nanoparticles Doped with Either Phosphorous or Zirconium. <i>Materials</i> , 2019 , 12,	3.5	10
27	Particle Number and Size Distribution from a Small Displacement Automotive Diesel Engine during DPF Regeneration. <i>SAE International Journal of Fuels and Lubricants</i> , 2010 , 3, 404-413	1.8	10
26	Visible Light-Driven Catalysts for Water Oxidation: Towards Solar Fuel Biorefineries. <i>Studies in Surface Science and Catalysis</i> , 2019 , 178, 65-84	1.8	9
25	Particle Number and Size Emissions from a Small Displacement Automotive Diesel Engine: Bioderived vs Conventional Fossil Fuels. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7565-7572	3.9	9
24	Metal Exchanged ZSM-5 Zeolite Based Catalysts for Direct Decomposition of N ₂ O. <i>Catalysis Letters</i> , 2009 , 132, 248-252	2.8	9
23	Core-substituted naphthalenediimides anchored on BiVO ₄ for visible light-driven water splitting. <i>Green Chemistry</i> , 2017 , 19, 2448-2462	10	8
22	Nanostructured Equimolar Ceria-Praseodymia for Total Oxidations in Low-O ₂ Conditions. <i>Catalysts</i> , 2020 , 10, 165	4	8
21	A new concept for a self-cleaning household oven. <i>Chemical Engineering Journal</i> , 2011 , 176-177, 253-259	14.7	7
20	Novel Mn ^{II} -Containing CeO ₂ Nanopolyhedra for the Oxidation of CO and Diesel Soot (Part II): Effect of Oxygen Concentration on the Catalytic Activity. <i>Catalysis Letters</i> , 2019 , 149, 107-118	2.8	7
19	Catalytic Wet Air Oxidation of Maleic Acid Over Lanthanum-Based Perovskites Synthesized by Solution Combustion Synthesis. <i>Waste and Biomass Valorization</i> , 2014 , 5, 857-863	3.2	6
18	NO _x Abatement by HC-Assisted SCR over Combustion Synthesized-Supported Ag Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7467-7474	3.9	6

17	Cs ₂ catalysts for the combustion of diesel particulate. <i>Topics in Catalysis</i> , 2004 , 30/31, 251-255	2.3	6
16	Structured catalytic reactor for soot abatement in a reducing atmosphere. <i>Fuel Processing Technology</i> , 2017 , 167, 462-473	7.2	5
15	Photo/electrocatalytic hydrogen exploitation for CO ₂ reduction toward solar fuels production 2019 , 365-418		5
14	Investigation of Gas Diffusion Electrode Systems for the Electrochemical CO ₂ Conversion. <i>Catalysts</i> , 2021 , 11, 482	4	5
13	CO Conversion to Alcohols over Cu/ZnO Catalysts: Prospective Synergies between Electrocatalytic and Thermocatalytic Routes.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	5
12	Insights on the surface chemistry of BiVO ₄ photoelectrodes and the role of Al overlayers on its water oxidation activity. <i>Applied Catalysis A: General</i> , 2020 , 605, 117796	5.1	4
11	Mobile and non-mobile catalysts for diesel-particulate combustion: A kinetic study. <i>Korean Journal of Chemical Engineering</i> , 2003 , 20, 451-456	2.8	3
10	Nanostructured ceria-based catalysts doped with La and Nd: How acid-base sites and redox properties determine the oxidation mechanisms. <i>Catalysis Today</i> , 2021 ,	5.3	3
9	Nano-Sized Additive Synthesis for Lubricant Oils and Compatibility Tests with After-Treatment Catalysts 2011 ,		2
8	NO and C Oxidation with Pt Recovered From Spent Catalytic Converters. <i>Waste and Biomass Valorization</i> , 2010 , 1, 235-239	3.2	1
7	Novel Approches in Oxidative Catalysis for Diesel Particulate Abatement. <i>Advances in Science and Technology</i> , 2006 , 45, 2083-2088	0.1	1
6	Catalytic Abatement of Volatile Organic Compounds and Soot over Manganese Oxide Catalysts. <i>Materials</i> , 2021 , 14,	3.5	1
5	Cerium-Copper Oxides Synthesized in a Multi-Inlet Vortex Reactor as Effective Nanocatalysts for CO and Ethene Oxidation Reactions. <i>Catalysts</i> , 2022 , 12, 364	4	0
4	Catalytic wet air oxidation of d-glucose by perovskite type oxides (Fe, Co, Mn) for the synthesis of value-added chemicals.. <i>Carbohydrate Research</i> , 2022 , 514, 108529	2.9	0
3	Advances in Cleaning Mobile Emissions: NO _x -Assisted Soot Oxidation in Light-Duty Diesel Engine Vehicle Application. <i>Studies in Surface Science and Catalysis</i> , 2019 , 329-352	1.8	
2	Aftertreatment Technologies: State-of-the-Art and Emerging Technologies 2015 , 1-27		
1	Phosphorous-Based Titania Nanoparticles for the Photocatalytic Abatement of VOCs 2021 , 189-208		