

# Nunzio Russo

## List of Publications by Year in Descending Order

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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	Cerium-Copper Oxides Synthesized in a Multi-Inlet Vortex Reactor as Effective Nanocatalysts for CO and Ethene Oxidation Reactions. <i>Catalysts</i> , <b>2022</b> , 12, 364	4	0
105	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> , <b>2022</b> , 514, 108529	2.9	0
104	Nanostructured ceria-based catalysts doped with La and Nd: How acid-base sites and redox properties determine the oxidation mechanisms. <i>Catalysis Today</i> , <b>2021</b> ,	5.3	3
103	Investigation of Gas Diffusion Electrode Systems for the Electrochemical CO <sub>2</sub> Conversion. <i>Catalysts</i> , <b>2021</b> , 11, 482	4	5
102	How to make sustainable CO <sub>2</sub> conversion to Methanol: Thermocatalytic versus electrocatalytic technology. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 127973	14.7	20
101	CO <sub>2</sub> valorisation towards alcohols by Cu-based electrocatalysts: challenges and perspectives. <i>Green Chemistry</i> , <b>2021</b> , 23, 1896-1920	10	13
100	Catalytic Abatement of Volatile Organic Compounds and Soot over Manganese Oxide Catalysts. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
99	Phosphorous-Based Titania Nanoparticles for the Photocatalytic Abatement of VOCs <b>2021</b> , 189-208		
98	CO Conversion to Alcohols over Cu/ZnO Catalysts: Prospective Synergies between Electrocatalytic and Thermocatalytic Routes.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	5
97	Cerium-Copper-Manganese Oxides Synthesized via Solution Combustion Synthesis (SCS) for Total Oxidation of VOCs. <i>Catalysis Letters</i> , <b>2020</b> , 150, 1821-1840	2.8	15
96	Nanostructured Equimolar Ceria-Praseodymia for Total Oxidations in Low-O <sub>2</sub> Conditions. <i>Catalysts</i> , <b>2020</b> , 10, 165	4	8
95	Optimization of BiVO <sub>4</sub> photoelectrodes made by electrodeposition for sun-driven water oxidation. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 605-618	6.7	27
94	Insights on the surface chemistry of BiVO <sub>4</sub> photoelectrodes and the role of Al overlayers on its water oxidation activity. <i>Applied Catalysis A: General</i> , <b>2020</b> , 605, 117796	5.1	4
93	Visible Light-Driven Catalysts for Water Oxidation: Towards Solar Fuel Biorefineries. <i>Studies in Surface Science and Catalysis</i> , <b>2019</b> , 178, 65-84	1.8	9
92	In situ Raman analyses of the soot oxidation reaction over nanostructured ceria-based catalysts. <i>Scientific Reports</i> , <b>2019</b> , 9, 3875	4.9	48
91	Advances in Cleaning Mobile Emissions: NO <sub>x</sub> -Assisted Soot Oxidation in Light-Duty Diesel Engine Vehicle Application. <i>Studies in Surface Science and Catalysis</i> , <b>2019</b> , 329-352	1.8	
90	Heterogeneous mechanism of NO <sub>x</sub> -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> , <b>2019</b> , 583, 117136	5.1	13

89	Photocatalytic Abatement of Volatile Organic Compounds by TiO Nanoparticles Doped with Either Phosphorous or Zirconium. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
88	The effect of crystal facets and induced porosity on the performance of monoclinic BiVO <sub>4</sub> for the enhanced visible-light driven photocatalytic abatement of methylene blue. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103265	6.8	22
87	Photo/electrocatalytic hydrogen exploitation for CO <sub>2</sub> reduction toward solar fuels production <b>2019</b> , 365-418		5
86	Synthesis and characterization of Ce and Er doped ZrO <sub>2</sub> nanoparticles as solar light driven photocatalysts. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 775, 896-904	5.7	19
85	Novel Mn <sup>II</sup> -Containing CeO <sub>2</sub> Nanopolyhedra for the Oxidation of CO and Diesel Soot (Part II): Effect of Oxygen Concentration on the Catalytic Activity. <i>Catalysis Letters</i> , <b>2019</b> , 149, 107-118	2.8	7
84	Insights on the role of Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>5</sub> O <sub>7</sub> NO <sub>3</sub> heterostructures synthesized by a scalable solid-state method for the sunlight-driven photocatalytic degradation of dyes. <i>Catalysis Today</i> , <b>2019</b> , 321-322, 135-145	5.3	41
83	Nanostructured equimolar ceria-praseodymia for NO <sub>x</sub> -assisted soot oxidation: Insight into Pr dominance over Pt nanoparticles and metal-support interaction. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 147-161	21.8	41
82	Single BiFeO <sub>3</sub> and mixed BiFeO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> /Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> ferromagnetic photocatalysts for solar light driven water oxidation and dye pollutants degradation. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 63, 437-448	6.3	26
81	Wet Air Oxidation of Industrial Lignin Case Study: Influence of the Dissolution Pretreatment and Perovskite-type Oxides. <i>Waste and Biomass Valorization</i> , <b>2018</b> , 9, 2165-2179	3.2	14
80	Novel Mn <sup>II</sup> -Containing CeO <sub>2</sub> Nanopolyhedra for the Oxidation of CO and Diesel Soot: Effect of Dopants on the Nanostructure and Catalytic Activity. <i>Catalysis Letters</i> , <b>2018</b> , 148, 298-311	2.8	33
79	Insights Into the Sunlight-Driven Water Oxidation by Ce and Er-Doped ZrO. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 368	5	13
78	Ceria-supported small Pt and Pt <sub>3</sub> Sn nanoparticles for NO <sub>x</sub> -assisted soot oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 209, 295-310	21.8	48
77	Core-substituted naphthalenediimides anchored on BiVO <sub>4</sub> for visible light-driven water splitting. <i>Green Chemistry</i> , <b>2017</b> , 19, 2448-2462	10	8
76	Syngas production from electrochemical reduction of CO <sub>2</sub> : current status and prospective implementation. <i>Green Chemistry</i> , <b>2017</b> , 19, 2326-2346	10	190
75	VOCs photocatalytic abatement using nanostructured titania-silica catalysts. <i>Journal of Environmental Chemical Engineering</i> , <b>2017</b> , 5, 3100-3107	6.8	19
74	CuO nanoparticles supported by ceria for NO <sub>x</sub> -assisted soot oxidation: insight into catalytic activity and sintering. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 216, 41-58	21.8	58
73	Cerium-copper oxides prepared by solution combustion synthesis for total oxidation reactions: From powder catalysts to structured reactors. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 455-468	21.8	82
72	Structured catalytic reactor for soot abatement in a reducing atmosphere. <i>Fuel Processing Technology</i> , <b>2017</b> , 167, 462-473	7.2	5

71	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> , <b>2017</b> , 63, 216-225	3.6	36
70	Recent Advances in the BiVO <sub>4</sub> Photocatalyst for Sun-Driven Water Oxidation: Top-Performing Photoanodes and Scale-Up Challenges. <i>Catalysts</i> , <b>2017</b> , 7, 13	4	158
69	Nanostructured Ceria-Based Materials: Effect of the Hydrothermal Synthesis Conditions on the Structural Properties and Catalytic Activity. <i>Catalysts</i> , <b>2017</b> , 7, 174	4	28
68	Green-synthesized W- and Mo-doped BiVO <sub>4</sub> oriented along the {0 4 0} facet with enhanced activity for the sun-driven water oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 630-636	21.8	128
67	Investigations into nanostructured ceria-zirconia catalysts for soot combustion. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 271-282	21.8	114
66	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> , <b>2016</b> , 199, 96-107	21.8	41
65	Nanostructured ceria-zirconia catalysts for CO oxidation: Study on surface properties and reactivity. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 197, 35-46	21.8	72
64	Evaluation of the charge transfer kinetics of spin-coated BiVO <sub>4</sub> thin films for sun-driven water photoelectrolysis. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 190, 66-74	21.8	77
63	Nanostructured ceria-praseodymia catalysts for diesel soot combustion. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 197, 125-137	21.8	77
62	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> , <b>2016</b> , 509, 75-96 <sup>5.1</sup>	5.1	209
61	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> , <b>2016</b> , 11, 494 <sup>5</sup>	5	28
60	Study on the CO Oxidation over Ceria-Based Nanocatalysts. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 165	5	47
59	Environmental issues regarding CO <sub>2</sub> and recent strategies for alternative fuels through photocatalytic reduction with titania-based materials. <i>Journal of Environmental Chemical Engineering</i> , <b>2016</b> , 4, 3934-3953	6.8	30
58	CO and Soot Oxidation over Ce-Zr-Pr Oxide Catalysts. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 278	5	25
57	Photo-catalytic activity of BiVO <sub>4</sub> thin-film electrodes for solar-driven water splitting. <i>Applied Catalysis A: General</i> , <b>2015</b> , 504, 266-271	5.1	48
56	Chemically induced porosity on BiVO <sub>4</sub> films produced by double magnetron sputtering to enhance the photo-electrochemical response. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 17821-7	3.6	27
55	Mesoporous silica supported Rh catalysts for high concentration N <sub>2</sub> O decomposition. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 165, 158-168	21.8	42
54	Novel nanostructured-TiO <sub>2</sub> materials for the photocatalytic reduction of CO <sub>2</sub> greenhouse gas to hydrocarbons and syngas. <i>Fuel</i> , <b>2015</b> , 149, 55-65	7.1	58

53	New optimized mesoporous silica incorporated isolated Ti materials towards improved photocatalytic reduction of carbon dioxide to renewable fuels. <i>Chemical Engineering Journal</i> , <b>2015</b> , 278, 279-292	14.7	18
52	Nanostructured ceria-based catalysts for soot combustion: Investigations on the surface sensitivity. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 165, 742-751	21.8	186
51	Mesoporous manganese oxides prepared by solution combustion synthesis as catalysts for the total oxidation of VOCs. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 163, 277-287	21.8	319
50	Aftertreatment Technologies: State-of-the-Art and Emerging Technologies <b>2015</b> , 1-27		
49	Catalysis in Diesel engine NOx aftertreatment: a review <b>2015</b> , 1, 155-173		50
48	BiVO <sub>4</sub> as photocatalyst for solar fuels production through water splitting: A short review. <i>Applied Catalysis A: General</i> , <b>2015</b> , 504, 158-170	5.1	113
47	Nanostructured TiO <sub>2</sub> /KIT-6 catalysts for improved photocatalytic reduction of CO <sub>2</sub> to tunable energy products. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 170-171, 53-65	21.8	36
46	Green-Synthesized BiVO <sub>4</sub> Oriented along {040} Facets for Visible-Light-Driven Ethylene Degradation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 2640-2646	3.9	61
45	Catalytic Wet Air Oxidation of Maleic Acid Over Lanthanum-Based Perovskites Synthesized by Solution Combustion Synthesis. <i>Waste and Biomass Valorization</i> , <b>2014</b> , 5, 857-863	3.2	6
44	New nanostructured silica incorporated with isolated Ti material for the photocatalytic conversion of CO <sub>2</sub> to fuels. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 158	5	11
43	CeO <sub>2</sub> -based catalysts with engineered morphologies for soot oxidation to enhance soot-catalyst contact. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 254	5	54
42	Development of modified KIT-6 and SBA-15-spherical supported Rh catalysts for N <sub>2</sub> O abatement: From powder to monolith supported catalysts. <i>Chemical Engineering Journal</i> , <b>2014</b> , 238, 198-205	14.7	36
41	Elucidation of important parameters of BiVO <sub>4</sub> responsible for photo-catalytic O <sub>2</sub> evolution and insights about the rate of the catalytic process. <i>Chemical Engineering Journal</i> , <b>2014</b> , 245, 124-132	14.7	52
40	Novel Ti-KIT-6 material for the photocatalytic reduction of carbon dioxide to methane. <i>Catalysis Communications</i> , <b>2013</b> , 36, 58-62	3.2	29
39	Modified KIT-6 and SBA-15-spherical supported metal catalysts for N <sub>2</sub> O decomposition. <i>Journal of Environmental Chemical Engineering</i> , <b>2013</b> , 1, 164-174	6.8	20
38	Evaluation of the Parameters Affecting the Visible-Light-Induced Photocatalytic Activity of Monoclinic BiVO <sub>4</sub> for Water Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 17414-17418 <sup>59</sup>	3.9	17418
37	N <sub>2</sub> O decomposition by mesoporous silica supported Rh catalysts. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 211-212, 255-65	12.8	57
36	Kinetic Study of Diesel Soot Combustion with Perovskite Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 7584-7589	3.9	14

35	Particle Number and Size Emissions from a Small Displacement Automotive Diesel Engine: Bioderived vs Conventional Fossil Fuels. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 7565-7572	3.9	9
34	NOx Abatement by HC-Assisted SCR over Combustion Synthesized-Supported Ag Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 7467-7474	3.9	6
33	Synthesis and catalytic properties of CeO <sub>2</sub> and Co/CeO <sub>2</sub> nanofibres for diesel soot combustion. <i>Catalysis Today</i> , <b>2012</b> , 184, 279-287	5.3	65
32	Novel mesoporous silica supported ZnO adsorbents for the desulphurization of biogas at low temperatures. <i>Chemical Engineering Journal</i> , <b>2012</b> , 188, 222-232	14.7	79
31	Photocatalytic Degradation of Ethylene Emitted by Fruits with TiO <sub>2</sub> Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 2536-2543	3.9	60
30	Detailed Investigation on Soot Particle Size Distribution during DPF Regeneration, using Standard and Bio-Diesel Fuels. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 2650-2658	3.9	32
29	Particle Number, Size and Mass Emissions of Different Biodiesel Blends Versus ULSD from a Small Displacement Automotive Diesel Engine <b>2011</b> ,		13
28	Nano-Sized Additive Synthesis for Lubricant Oils and Compatibility Tests with After-Treatment Catalysts <b>2011</b> ,		2
27	A new concept for a self-cleaning household oven. <i>Chemical Engineering Journal</i> , <b>2011</b> , 176-177, 253-259	14.7	7
26	A novel ZnO-based adsorbent for biogas purification in H <sub>2</sub> production systems. <i>Chemical Engineering Journal</i> , <b>2011</b> , 176-177, 272-279	14.7	37
25	Studies on the activity and deactivation of novel optimized TiO <sub>2</sub> nanoparticles for the abatement of VOCs. <i>Chemical Engineering Journal</i> , <b>2011</b> , 175, 330-340	14.7	36
24	Photocatalytic abatement of VOCs by novel optimized TiO <sub>2</sub> nanoparticles. <i>Chemical Engineering Journal</i> , <b>2011</b> , 166, 138-149	14.7	97
23	Synthesis, Characterization, and Thiophene Hydrodesulfurization Activity of Novel Macroporous and Mesomacroporous Carbon. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 2530-2535	3.9	22
22	Influence of the MgCo <sub>2</sub> O <sub>4</sub> Preparation Method on N <sub>2</sub> O Catalytic Decomposition. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 2622-2627	3.9	29
21	Low Temperature NH <sub>3</sub> Selective Catalytic Reduction of NO <sub>x</sub> over Substituted MnCr <sub>2</sub> O <sub>4</sub> Spinel-Oxide Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 6668-6672	3.9	46
20	Particle Number and Size Distribution from a Small Displacement Automotive Diesel Engine during DPF Regeneration. <i>SAE International Journal of Fuels and Lubricants</i> , <b>2010</b> , 3, 404-413	1.8	10
19	Power and Hydrogen Co-generation from Biogas. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 4743-4747	4.1	16
18	Appraisal of a De-NO <sub>x</sub> System Based on H <sub>2</sub> for Light-Duty Diesel Engine Vehicles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 10323-10333	3.9	17

17	NO and C Oxidation with Pt Recovered From Spent Catalytic Converters. <i>Waste and Biomass Valorization</i> , <b>2010</b> , 1, 235-239	3.2	1
16	NO SCR reduction by hydrogen generated in line on perovskite-type catalysts for automotive diesel exhaust gas treatment. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 120-127	4.4	38
15	Metal Exchanged ZSM-5 Zeolite Based Catalysts for Direct Decomposition of N <sub>2</sub> O. <i>Catalysis Letters</i> , <b>2009</b> , 132, 248-252	2.8	9
14	Towards practical application of lanthanum ferrite catalysts for NO reduction with H <sub>2</sub> . <i>Chemical Engineering Journal</i> , <b>2009</b> , 154, 348-354	14.7	22
13	Removal of NO <sub>x</sub> and diesel soot over catalytic traps based on spinel-type oxides. <i>Powder Technology</i> , <b>2008</b> , 180, 74-78	5.2	42
12	Lanthanum cobaltite catalysts for diesel soot combustion. <i>Applied Catalysis B: Environmental</i> , <b>2008</b> , 83, 85-95	21.8	96
11	N <sub>2</sub> O catalytic decomposition over various spinel-type oxides. <i>Catalysis Today</i> , <b>2007</b> , 119, 228-232	5.3	133
10	La <sub>0.8</sub> Co <sub>0.2</sub> perovskite catalysts for diesel particulate combustion. <i>Catalysis Today</i> , <b>2006</b> , 114, 31-39	5.3	63
9	High catalytic activity of SCS-synthesized ceria towards diesel soot combustion. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 69, 85-92	21.8	51
8	Novel Approches in Oxidative Catalysis for Diesel Particulate Abatement. <i>Advances in Science and Technology</i> , <b>2006</b> , 45, 2083-2088	0.1	1
7	Cs <sub>2</sub> V catalysts for the combustion of diesel particulate. <i>Topics in Catalysis</i> , <b>2004</b> , 30/31, 251-255	2.3	6
6	A multifunctional filter for the simultaneous removal of fly-ash and NO <sub>x</sub> from incinerator flue gases. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 5329-5336	4.4	34
5	Mobile and non-mobile catalysts for diesel-particulate combustion: A kinetic study. <i>Korean Journal of Chemical Engineering</i> , <b>2003</b> , 20, 451-456	2.8	3
4	The role of suprafacial oxygen in some perovskites for the catalytic combustion of soot. <i>Journal of Catalysis</i> , <b>2003</b> , 217, 367-375	7.3	225
3	Effect of active species mobility on soot-combustion over Cs-V catalysts. <i>AIChE Journal</i> , <b>2003</b> , 49, 2173-2180	2.8	53
2	Diesel particulate abatement via catalytic traps. <i>Catalysis Today</i> , <b>2000</b> , 60, 33-41	5.3	32
1	A screening study on the activation energy of vanadate-based catalysts for diesel soot combustion. <i>Catalysis Letters</i> , <b>2000</b> , 69, 207-215	2.8	34