Riccardo Pellegrini

List of Publications by Year
in descending order

34	1,224	361413	395702
papers	citations	20 h-index	33 g-index

34	34	34	1485
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gas phasevs.liquid phase: monitoring H₂and CO adsorption phenomena on Pt/Al₂O₃by IR spectroscopy. Catalysis Science and Technology, 2022, 12, 1359-1367.	4.1	5
2	Assessing the functional groups in activated carbons through a multi-technique approach. Catalysis Science and Technology, 2022, 12, 1271-1288.	4.1	7
3	Evidence for H₂-Induced Ductility in a Pt/Al₂O₃ Catalyst. ACS Catalysis, 2022, 12, 5979-5989.	11.2	9
4	Hydrogenation of ethylene over palladium: evolution of the catalyst structure by operando synchrotron-based techniques. Faraday Discussions, 2021, 229, 197-207.	3.2	9
5	Changes of Pd Oxidation State in Pd/Al2O3 Catalysts Using Modulated Excitation DRIFTS. Catalysts, 2021, 11, 116.	3.5	6
6	Deactivation of Industrial Pd/Al₂O₃ Catalysts by Ethanol: A Spectroscopic Study. ChemCatChem, 2021, 13, 900-908.	3.7	5
7	How do the graphenic domains terminate in activated carbons and carbon-supported metal catalysts?. Carbon, 2020, 169, 357-369.	10.3	9
8	Operando X-ray absorption spectra and mass spectrometry data during hydrogenation of ethylene over palladium nanoparticles. Data in Brief, 2019, 24, 103954.	1.0	8
9	Dynamics of Reactive Species and Reactant-Induced Reconstruction of Pt Clusters in Pt/Al₂O₃Catalysts. ACS Catalysis, 2019, 9, 7124-7136.	11.2	31
10	The role of palladium carbides in the catalytic hydrogenation of ethylene over supported palladium nanoparticles. Catalysis Today, 2019, 336, 40-44.	4.4	29
11	Palladium Carbide and Hydride Formation in the Bulk and at the Surface of Palladium Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 12029-12037.	3.1	61
12	Time-resolved operando studies of carbon supported Pd nanoparticles under hydrogenation reactions by X-ray diffraction and absorption. Faraday Discussions, 2018, 208, 187-205.	3.2	47
13	Looking for the active hydrogen species in a 5Âwt% Pt/C catalyst: a challenge for inelastic neutron scattering. Faraday Discussions, 2018, 208, 227-242.	3.2	20
14	Dynamic Behavior of Pd/P4VP Catalyst during the Aerobic Oxidation of 2-Propanol: A Simultaneous SAXS/XAS/MS Operando Study. ACS Catalysis, 2018, 8, 6870-6881.	11.2	13
15	In situ formation of hydrides and carbides in palladium catalyst: When XANES is better than EXAFS and XRD. Catalysis Today, 2017, 283, 119-126.	4.4	103
16	Coreâ€“Shell Structure of Palladium Hydride Nanoparticles Revealed by Combined X-ray Absorption Spectroscopy and X-ray Diffraction. Journal of Physical Chemistry C, 2017, 121, 18202-18213.	3.1	67
17	The effect of surface chemistry on the performances of Pd-based catalysts supported on activated carbons. Catalysis Science and Technology, 2017, 7, 4162-4172.	4.1	21
18	Formation and growth of palladium nanoparticles inside porous poly(4-vinyl-pyridine) monitored by operando techniques: The role of different reducing agents. Catalysis Today, 2017, 283, 144-150.	4.4	8

#	Article	IF	Citations
19	Graphitization of Activated Carbons: A Molecular-level Investigation by INS, DRIFT, XRD and Raman Techniques. Physics Procedia, 2016, 85, 20-26.	1.2	68
20	A comprehensive approach to investigate the structural and surface properties of activated carbons and related Pd-based catalysts. Catalysis Science and Technology, 2016, 6, 4910-4922.	4.1	96
21	Progress in the Characterization of the Surface Species in Activated Carbons by means of INS Spectroscopy Coupled with Detailed DFT Calculations. Advances in Condensed Matter Physics, 2015, 2015, 1-8.	1.1	22
22	Effect of Different Face Centered Cubic Nanoparticle Distributions on Particle Size and Surface Area Determination: A Theoretical Study. Journal of Physical Chemistry C, 2014, 118, 4085-4094.	3.1	45
23	Effect of Pre-Reduction on the Properties and the Catalytic Activity of Pd/Carbon Catalysts: A Comparison with Pd/Al₂O₃. ACS Catalysis, 2014, 4, 187-194.	11.2	62
24	Effect of reduction in liquid phase on the properties and the catalytic activity of Pd/Al2O3 catalysts. Journal of Catalysis, 2012, 287, 44-54.	6.2	62
25	0.5wt.% Pd/C catalyst for purification of terephthalic acid: Irreversible deactivation in industrial plants. Journal of Catalysis, 2011, 280, 150-160.	6.2	57
26	Pd supported catalysts: Evolution of the support during Pd deposition and K doping. Studies in Surface Science and Catalysis, 2010, , 433-436.	1.5	0
27	Preparation of Supported Pd Catalysts: From the Pd Precursor Solution to the Deposited Pd2+ Phase. Langmuir, 2010, 26, 11204-11211.	3.5	61
28	Investigation of carbon and alumina supported Pd catalysts during catalyst preparation. Studies in Surface Science and Catalysis, 2010, , 437-440.	1.5	2
29	Influence of K-doping on a Pd/SiO2â€“Al2O3 catalyst. Journal of Catalysis, 2009, 267, 40-49.	6.2	44
30	Pd-Supported Catalysts: Evolution of Support Porous Texture along Pd Deposition and Alkali-Metal Doping. Langmuir, 2009, 25, 6476-6485.	3.5	34
31	Determination of the Particle Size, Available Surface Area, and Nature of Exposed Sites for Silicaâ^'Alumina-Supported Pd Nanoparticles: A Multitechnical Approach. Journal of Physical Chemistry C, 2009, 113, 10485-10492.	3.1	124
32	Role of the Support in Determining the Vibrational Properties of Carbonyls Formed on Pd Supported on SiO2â^'Al2O3, Al2O3, and MgO. Journal of Physical Chemistry C, 2007, 111, 7021-7028.	3.1	54
33	Direct IR observation of vibrational properties of carbonyl species formed on Pd nano-particles supported on amorphous carbon: comparison with Pd/SiO2â€“Al2O3. Physical Chemistry Chemical Physics, 2006, 8, 3676-3681.	2.8	28
34	Preparation of Pd/C catalysts: from the Pd-precursor solution to the final systems. Studies in Surface Science and Catalysis, 2006, 162, 721-728.	1.5	7