

Giovanni Agostini

List of Publications by Year in descending order

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99
papers

5,195
citations

87723

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88477

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106
all docs

106
docs citations

106
times ranked

7266
citing authors

#	ARTICLE	IF	CITATIONS
1	Cobalt nanoclusters coated with N-doped carbon for chemoselective nitroarene hydrogenation and tandem reactions in water. <i>Green Chemistry</i> , 2021, 23, 4490-4501.	4.6	31
2	Bottom-up assembly of bimetallic nanocluster catalysts from oxide-supported single-atom precursors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8401-8415.	5.2	8
3	AgY zeolite as catalyst for the selective catalytic oxidation of NH ₃ . <i>Microporous and Mesoporous Materials</i> , 2021, 323, 111230.	2.2	15
4	Zeolite-driven Ag species during redox treatments and catalytic implications for SCO of NH ₃ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 27448-27458.	5.2	11
5	The Effect of Iron and Vanadium in VO ₂ /Ce _{1-x} Fe _x O ₂ Catalysts in Low-Temperature Selective Catalytic Reduction of NO _x by Ammonia. <i>ChemCatChem</i> , 2020, 12, 2440-2451.	1.8	5
6	One-Pot Cooperation of Single-Atom Rh and Ru Solid Catalysts for a Selective Tandem Olefin Isomerization-Hydrosilylation Process. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5806-5815.	7.2	76
7	Metal-Specific Reactivity in Single-Atom Catalysts: CO Oxidation on 4d and 5d Transition Metals Atomically Dispersed on MgO. <i>Journal of the American Chemical Society</i> , 2020, 142, 14890-14902.	6.6	75
8	Nature and evolution of Pd catalysts supported on activated carbon fibers during the catalytic reduction of bromate in water. <i>Catalysis Science and Technology</i> , 2020, 10, 3646-3653.	2.1	7
9	Spectroscopy in Catalysis. <i>Catalysts</i> , 2020, 10, 408.	1.6	1
10	Prospects of Heterogeneous Hydroformylation with Supported Single Atom Catalysts. <i>Journal of the American Chemical Society</i> , 2020, 142, 5087-5096.	6.6	98
11	Pd-Au bimetallic catalysts supported on ZnO for selective 1,3-butadiene hydrogenation. <i>Catalysis Science and Technology</i> , 2020, 10, 2503-2512.	2.1	20
12	Local Structures of Oxygen-Deficient Perovskite Sr ₂ ScGaO ₅ Polymorphs Explored by Total Neutron Scattering and EXAFS Spectroscopy. <i>Inorganic Chemistry</i> , 2020, 59, 9434-9442.	1.9	4
13	One-Pot Cooperation of Single-Atom Rh and Ru Solid Catalysts for a Selective Tandem Olefin Isomerization-Hydrosilylation Process. <i>Angewandte Chemie</i> , 2020, 132, 5855-5864.	1.6	21
14	Rationalizing the Effect of Triethylaluminum on the Cr/SiO ₂ -Phillips Catalysts. <i>ACS Catalysis</i> , 2020, 10, 2694-2706.	5.5	15
15	Insights into the Promotion with Ru of Co/TiO ₂ Fischer-Tropsch Catalysts: An In Situ Spectroscopic Study. <i>ACS Catalysis</i> , 2020, 10, 6042-6057.	5.5	39
16	Use of Alkylarsonium Directing Agents for the Synthesis and Study of Zeolites. <i>Chemistry - A European Journal</i> , 2019, 25, 16390-16396.	1.7	6
17	Zinc single atoms on N-doped carbon: An efficient and stable catalyst for CO ₂ fixation and conversion. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1679-1685.	6.9	27
18	Additive-Free Nickel-Catalyzed Debenzylation Reactions via Hydrogenative C=O and C=N Bond Cleavage. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17107-17113.	3.2	12

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19	A flexible cell for <i>in situ</i> combined XAS-DRIFTS-MS experiments. Journal of Synchrotron Radiation, 2019, 26, 801-810.	1.0	6
20	Hydrogen thermo-photo production using Ru/TiO ₂ : Heat and light synergistic effects. Applied Catalysis B: Environmental, 2019, 256, 117790.	10.8	44
21	Dye activation of heterogeneous Copper(II)-Species for visible light driven hydrogen generation. International Journal of Hydrogen Energy, 2019, 44, 28409-28420.	3.8	4
22	Exploring the benefits beyond the pre-reduction in methane of the Cr/SiO ₂ Phillips catalyst: The molecular structure of the Cr sites and their role in the catalytic performance. Journal of Catalysis, 2019, 373, 173-179.	3.1	6
23	An <i>in situ</i> XAS study of the activation of precursor-dependent Pd nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 12700-12709.	1.3	21
24	CO dissociation on Pt-Sn nanoparticles triggers Sn oxidation and alloy segregation. Journal of Catalysis, 2018, 359, 76-81.	3.1	21
25	CO Hydrogenation on Cobalt-Based Catalysts: Tin Poisoning Unravels CO in Hollow Sites as a Main Surface Intermediate. Angewandte Chemie - International Edition, 2018, 57, 547-550.	7.2	39
26	XAS/DRIFTS/MS spectroscopy for time-resolved <i>operando</i> investigations at high temperature. Journal of Synchrotron Radiation, 2018, 25, 1745-1752.	1.0	22
27	A robust iron catalyst for the selective hydrogenation of substituted (iso)quinolones. Chemical Science, 2018, 9, 8134-8141.	3.7	63
28	Relations between Structure, Activity and Stability in C ₃ N ₄ Based Photocatalysts Used for Solar Hydrogen Production. Catalysts, 2018, 8, 52.	1.6	10
29	Nb-Modified Ce/Ti Oxide Catalyst for the Selective Catalytic Reduction of NO with NH ₃ at Low Temperature. Catalysts, 2018, 8, 175.	1.6	19
30	Illuminating the nature and behavior of the active center: the key for photocatalytic H ₂ production in Co@NH ₂ -MIL-125(Ti). Journal of Materials Chemistry A, 2018, 6, 17318-17322.	5.2	27
31	Intermetallic nickel silicide nanocatalyst—A non-noble metal-based general hydrogenation catalyst. Science Advances, 2018, 4, eaat0761.	4.7	116
32	Hydrogenation of Pyridines Using a Nitrogen-Modified Titania-Supported Cobalt Catalyst. Angewandte Chemie - International Edition, 2018, 57, 14488-14492.	7.2	42
33	Tuning Pt and Cu sites population inside functionalized UiO-67 MOF by controlling activation conditions. Faraday Discussions, 2017, 201, 265-286.	1.6	31
34	Study of methane oxidation over alumina supported Pd-Pt catalysts using <i>operando</i> DRIFTS/MS and <i>in situ</i> XAS techniques. Journal of Lithic Studies, 2017, 3, 24-32.	0.1	14
35	Insights into Cr/SiO ₂ catalysts during dehydrogenation of propane: an <i>operando</i> XAS investigation. Catalysis Science and Technology, 2017, 7, 1690-1700.	2.1	28
36	Structure-reactivity relationship in Co ₃ O ₄ promoted Au/CeO ₂ catalysts for the CH ₃ OH oxidation reaction revealed by <i>in situ</i> FTIR and <i>operando</i> EXAFS studies. Journal of Materials Chemistry A, 2017, 5, 2083-2094.	5.2	23

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37	Synergy of Contact between ZnO Surface Planes and PdZn Nanostructures: Morphology and Chemical Property Effects in the Intermetallic Sites for Selective 1,3-Butadiene Hydrogenation. <i>ACS Catalysis</i> , 2017, 7, 796-811.	5.5	45
38	The duality of UiO-67-Pt MOFs: connecting treatment conditions and encapsulated Pt species by <i>operando</i> XAS. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27489-27507.	1.3	28
39	Nearest-neighbour distribution of distances in crystals from extended X-ray absorption fine structure. <i>Journal of Chemical Physics</i> , 2017, 147, 044503.	1.2	25
40	Methane oxidation over Pd/Al ₂ O ₃ under rich/lean cycling followed by <i>operando</i> XAFS and modulation excitation spectroscopy. <i>Journal of Catalysis</i> , 2017, 356, 237-245.	3.1	48
41	A Stable Nanocobalt Catalyst with Highly Dispersed CoN _x Active Sites for the Selective Dehydrogenation of Formic Acid. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16616-16620.	7.2	135
42	Formation and growth of palladium nanoparticles inside porous poly(4-vinyl-pyridine) monitored by <i>operando</i> techniques: The role of different reducing agents. <i>Catalysis Today</i> , 2017, 283, 144-150.	2.2	8
43	Generation of subnanometric platinum with high stability during transformation of a 2D zeolite into 3D. <i>Nature Materials</i> , 2017, 16, 132-138.	13.3	505
44	Development of Active and Stable Low Nickel Content Catalysts for Dry Reforming of Methane. <i>Catalysts</i> , 2017, 7, 157.	1.6	43
45	The dynamics of pseudocapacitive phenomena studied by Energy Dispersive X-Ray Absorption Spectroscopy on hydrous iridium oxide electrodes in alkaline media. <i>Electrochimica Acta</i> , 2016, 212, 247-253.	2.6	8
46	A XAFS study of the local environment and reactivity of Pt- sites in functionalized UiO-67 MOFs. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012125.	0.3	10
47	Graphitization of Activated Carbons: A Molecular-level Investigation by INS, DRIFT, XRD and Raman Techniques. <i>Physics Procedia</i> , 2016, 85, 20-26.	1.2	68
48	Pd nanoparticles formation inside porous polymeric scaffolds followed by <i>in situ</i> XANES/SAXS. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012039.	0.3	1
49	Watching Kinetic Studies as Chemical Maps Using Open-Source Software. <i>Analytical Chemistry</i> , 2016, 88, 6154-6160.	3.2	35
50	Room-Temperature CO Oxidation Catalyst: Low-Temperature Metal-Support Interaction between Platinum Nanoparticles and Nanosized Ceria. <i>ACS Catalysis</i> , 2016, 6, 6151-6155.	5.5	136
51	A comprehensive approach to investigate the structural and surface properties of activated carbons and related Pd-based catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 4910-4922.	2.1	96
52	The Time-resolved and Extreme-conditions XAS (TEXAS) facility at the European Synchrotron Radiation Facility: the energy-dispersive X-ray absorption spectroscopy beamline ID24. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 353-368.	1.0	86
53	Characterization of Surface Structure and Oxidation/Reduction Behavior of Pd ₂ O ₃ Model Catalysts. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28009-28020.	1.5	25
54	Time-Resolved XAS Investigation of the Local Environment and Evolution of Oxidation States of a Fischer-Tropsch Ru-Cs/C Catalyst. <i>ACS Catalysis</i> , 2016, 6, 1437-1445.	5.5	23

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55	Modeling the Structure of Complex Aluminosilicate Glasses: The Effect of Zinc Addition. Journal of Physical Chemistry B, 2016, 120, 2526-2537.	1.2	7
56	The Pyridyl Functional Groups Guide the Formation of Pd Nanoparticles Inside A Porous Poly(4-vinylpyridine). ChemCatChem, 2015, 7, 2188-2195.	1.8	15
57	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.	0.4	22
58	Anisotropy in the Raman scattering of a CaFeO _{2.5} single crystal and its link with oxygen ordering in Brownmillerite frameworks. Journal of Physics Condensed Matter, 2015, 27, 225403.	0.7	19
59	Probing Reactive Platinum Sites in UiO-67 Zirconium Metal-Organic Frameworks. Chemistry of Materials, 2015, 27, 1042-1056.	3.2	105
60	MoS ₂ Nanoparticles Decorating Titanate-Nanotube Surfaces: Combined Microscopy, Spectroscopy, and Catalytic Studies. Langmuir, 2015, 31, 5469-5478.	1.6	55
61	Nanocrystalline TiO ₂ micropillar arrays grafted on conductive glass supports: microscopic and spectroscopic studies. Thin Solid Films, 2015, 590, 200-206.	0.8	12
62	Catalyst Characterization by XAS and XES Spectroscopies: In Situ and Operando Experiments. , 2015, , 717-736.		5
63	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.	1.5	45
64	Effect of Pre-Reduction on the Properties and the Catalytic Activity of Pd/Carbon Catalysts: A Comparison with Pd/Al ₂ O ₃ . ACS Catalysis, 2014, 4, 187-194.	5.5	62
65	Close-Packed Dye Molecules in Zeolite Channels Self-Assemble into Supramolecular Nanoladders. Journal of Physical Chemistry C, 2014, 118, 15732-15743.	1.5	41
66	Formation and Growth of Pd Nanoparticles Inside a Highly Cross-Linked Polystyrene Support: Role of the Reducing Agent. Journal of Physical Chemistry C, 2014, 118, 8406-8415.	1.5	37
67	Interaction of NH ₃ with Cu-SSZ-13 Catalyst: A Complementary FTIR, XANES, and XES Study. Journal of Physical Chemistry Letters, 2014, 5, 1552-1559.	2.1	248
68	Low-dimensional systems investigated by x-ray absorption spectroscopy: a selection of 2D, 1D and 0D cases. Journal Physics D: Applied Physics, 2013, 46, 423001.	1.3	101
69	Reactivity of Surface Species in Heterogeneous Catalysts Probed by In Situ X-ray Absorption Techniques. Chemical Reviews, 2013, 113, 1736-1850.	23.0	553
70	Thermal effects on Rhodium nanoparticles supported on carbon. Journal of Physics: Conference Series, 2013, 430, 012031.	0.3	10
71	Growth and characterization of large high quality brownmillerite CaFeO _{2.5} single crystals. CrystEngComm, 2012, 14, 5771.	1.3	23
72	Effect of reduction in liquid phase on the properties and the catalytic activity of Pd/Al ₂ O ₃ catalysts. Journal of Catalysis, 2012, 287, 44-54.	3.1	62

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73	Rapid purification/oxidation of multi-walled carbon nanotubes under 300 kHz-ultrasound and microwave irradiation. <i>New Journal of Chemistry</i> , 2011, 35, 915.	1.4	31
74	Model oxide supported MoS ₂ HDS catalysts: structure and surface properties. <i>Catalysis Science and Technology</i> , 2011, 1, 123.	2.1	81
75	0.5wt.% Pd/C catalyst for purification of terephthalic acid: Irreversible deactivation in industrial plants. <i>Journal of Catalysis</i> , 2011, 280, 150-160.	3.1	57
76	Time Resolved in Situ XAFS Study of the Electrochemical Oxygen Intercalation in SrFeO _{2.5} Brownmillerite Structure: Comparison with the Homologous SrCoO _{2.5} System. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1311-1322.	1.5	72
77	XAFS, XRF, and EPL Characterization of a Multi-Quantum Well Electroabsorption Modulated Laser Realized via Selective Area Growth. <i>Small</i> , 2011, 7, 930-938.	5.2	21
78	Structural Characterization of Multi-Quantum Wells in Electroabsorption Modulated Lasers by using Synchrotron Radiation Micrometer Beams. <i>Advanced Materials</i> , 2010, 22, 2050-2054.	11.1	18
79	Pd supported catalysts: Evolution of the support during Pd deposition and K doping. <i>Studies in Surface Science and Catalysis</i> , 2010, , 433-436.	1.5	0
80	Preparation of Supported Pd Catalysts: From the Pd Precursor Solution to the Deposited Pd ²⁺ Phase. <i>Langmuir</i> , 2010, 26, 11204-11211.	1.6	61
81	Gold Nanoparticle Aggregates Immobilized on High Surface Area Silica Substrate for Efficient and Clean SERS Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3857-3862.	1.5	29
82	Investigation of carbon and alumina supported Pd catalysts during catalyst preparation. <i>Studies in Surface Science and Catalysis</i> , 2010, , 437-440.	1.5	2
83	Designing TiO ₂ Based Nanostructures by Control of Surface Morphology of Pure and Silver Loaded Titanate Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 169-178.	1.5	54
84	In Situ XAS and XRPD Parametric Rietveld Refinement To Understand Dealumination of Y Zeolite Catalyst. <i>Journal of the American Chemical Society</i> , 2010, 132, 667-678.	6.6	174
85	Subnanometric Pd Particles Stabilized Inside Highly Cross-Linked Polymeric Supports. <i>Chemistry of Materials</i> , 2010, 22, 2297-2308.	3.2	40
86	FTIR spectroscopy and thermodynamics of CO and H ₂ adsorbed on γ -, δ - and θ -Al ₂ O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6474.	1.3	47
87	Influence of K-doping on a Pd/SiO ₂ -Al ₂ O ₃ catalyst. <i>Journal of Catalysis</i> , 2009, 267, 40-49.	3.1	44
88	Synchrotron study of oxygen depletion in a Bi-2212 whisker annealed at 363±...K. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 813-817.	1.0	15
89	Pd-Supported Catalysts: Evolution of Support Porous Texture along Pd Deposition and Alkali-Metal Doping. <i>Langmuir</i> , 2009, 25, 6476-6485.	1.6	34
90	Determination of the Particle Size, Available Surface Area, and Nature of Exposed Sites for Silica-Alumina-Supported Pd Nanoparticles: A Multitechnical Approach. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10485-10492.	1.5	124

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91	From Isolated Ag ⁺ Ions to Aggregated Ag ⁰ Nanoclusters in Silver-Exchanged Engelhard Titanosilicate (ETS-10) Molecular Sieve: Reversible Behavior. <i>Chemistry of Materials</i> , 2009, 21, 1343-1353.	3.2	43
92	Oriented TiO ₂ Nanostructured Pillar Arrays: Synthesis and Characterization. <i>Advanced Materials</i> , 2008, 20, 3342-3348.	11.1	38
93	Cotton textile fibres coated by Au/TiO ₂ films: Synthesis, characterization and self cleaning properties. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 199, 64-72.	2.0	140
94	Local Structure of CPO-27-Ni Metallorganic Framework upon Dehydration and Coordination of NO. <i>Chemistry of Materials</i> , 2008, 20, 4957-4968.	3.2	195
95	Au Nanoparticles as SERS Probes of the Silica Surface Layer Structure in the Absence and Presence of Adsorbates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4932-4936.	1.5	14
96	Reactivity of Cr Species Grafted on SiO ₂ /Si(100) Surface: A Reflection Extended X-ray Absorption Fine Structure Study down to the Submonolayer Regime. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16437-16444.	1.5	27
97	Role of the Support in Determining the Vibrational Properties of Carbonyls Formed on Pd Supported on SiO ₂ Al ₂ O ₃ , Al ₂ O ₃ , and MgO. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7021-7028.	1.5	54
98	CHAPTER 5. Characterization of MOFs. 2. Long and Local Range Order Structural Determination of MOFs by Combining EXAFS and Diffraction Techniques. <i>RSC Catalysis Series</i> , 0, , 143-208.	0.1	11
99	5. Structural and electronic characterization of nanosized inorganic materials by X-ray absorption spectroscopies. , 0, , .		0