

Matteo Monai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/930971/publications.pdf>

Version: 2024-02-01

43
papers

4,152
citations

201674

27
h-index

243625

44
g-index

46
all docs

46
docs citations

46
times ranked

6207
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals and Catalytic Applications of CeO ₂ -Based Materials. <i>Chemical Reviews</i> , 2016, 116, 5987-6041.	47.7	1,883
2	The renaissance of the Sabatier reaction and its applications on Earth and in space. <i>Nature Catalysis</i> , 2019, 2, 188-197.	34.4	369
3	Mechanisms for High Selectivity in the Hydrodeoxygenation of 5-Hydroxymethylfurfural over PtCo Nanocrystals. <i>ACS Catalysis</i> , 2016, 6, 4095-4104.	11.2	124
4	Understanding carbon dioxide activation and carbon-carbon coupling over nickel. <i>Nature Communications</i> , 2019, 10, 5330.	12.8	124
5	Structure Sensitivity in Steam and Dry Methane Reforming over Nickel: Activity and Carbon Formation. <i>ACS Catalysis</i> , 2020, 10, 1428-1438.	11.2	109
6	Catalytic Oxidation of Methane: Pd and Beyond. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 2884-2893.	2.0	105
7	Propane to olefins tandem catalysis: a selective route towards light olefins production. <i>Chemical Society Reviews</i> , 2021, 50, 11503-11529.	38.1	104
8	Base metal-Pt alloys: A general route to high selectivity and stability in the production of biofuels from HMF. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 439-446.	20.2	100
9	Methane Catalytic Combustion over Hierarchical Pd@CeO ₂ /SiAl ₂ O ₃ : Effect of the Presence of Water. <i>ChemCatChem</i> , 2015, 7, 2038-2046.	3.7	98
10	Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO ₃ Prepared by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2018, 140, 4841-4848.	13.7	85
11	Unraveling the surface state and composition of highly selective nanocrystalline Ni-Cu alloy catalysts for hydrodeoxygenation of HMF. <i>Catalysis Science and Technology</i> , 2017, 7, 1735-1743.	4.1	82
12	The effect of sulfur dioxide on the activity of hierarchical Pd-based catalysts in methane combustion. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 72-83.	20.2	80
13	Brookite: Nothing New under the Sun?. <i>Catalysts</i> , 2017, 7, 304.	3.5	71
14	Uncovering the reaction mechanism behind CoO as active phase for CO ₂ hydrogenation. <i>Nature Communications</i> , 2022, 13, 324.	12.8	69
15	Dye-sensitized photocatalytic hydrogen production: distinct activity in a glucose derivative of a phenothiazine dye. <i>Chemical Communications</i> , 2016, 52, 6977-6980.	4.1	55
16	The H ₂ Pressure Dependence of Hydrodeoxygenation Selectivities for Furfural Over Pt/C Catalysts. <i>Catalysis Letters</i> , 2016, 146, 711-717.	2.6	54
17	Dye-Sensitized Photocatalytic Hydrogen Generation: Efficiency Enhancement by Organic Photosensitizer-Coadsorbent Intermolecular Interaction. <i>ACS Energy Letters</i> , 2018, 3, 85-91.	17.4	48
18	Highly efficient hydrogen production through ethanol photoreforming by a carbon nanocone/Pd@TiO ₂ hybrid catalyst. <i>Chemical Communications</i> , 2016, 52, 764-767.	4.1	45

#	ARTICLE	IF	CITATIONS
19	Nanostructured Pd Pt nanoparticles: evidences of structure/performance relations in catalytic H ₂ production reactions. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 88-98.	20.2	45
20	Modification of Pd/CeO ₂ catalyst by Atomic Layer Deposition of ZrO ₂ . <i>Applied Catalysis B: Environmental</i> , 2016, 197, 280-285.	20.2	38
21	Towards Sustainable H ₂ Production: Rational Design of Hydrophobic Triphenylamine-based Dyes for Sensitized Ethanol Photoreforming. <i>ChemSusChem</i> , 2018, 11, 793-805.	6.8	36
22	High-surface-area, iron-oxide films prepared by atomic layer deposition on γ -Al ₂ O ₃ . <i>Applied Catalysis A: General</i> , 2017, 534, 70-77.	4.3	34
23	A New Porous Hybrid Material Derived From Silica Fume and Alginate for Sustainable Pollutants Reduction. <i>Frontiers in Chemistry</i> , 2018, 6, 60.	3.6	34
24	Dynamic restructuring of supported metal nanoparticles and its implications for structure insensitive catalysis. <i>Nature Communications</i> , 2021, 12, 7096.	12.8	33
25	Cerium Oxide Nanoparticles Absorption through Intact and Damaged Human Skin. <i>Molecules</i> , 2019, 24, 3759.	3.8	32
26	H ₂ production by photocatalytic reforming of oxygenated compounds using TiO ₂ -based materials. <i>Materials Science in Semiconductor Processing</i> , 2016, 42, 122-130.	4.0	30
27	<i>In situ</i> Nanoscale Infrared Spectroscopy of Water Adsorption on Nanoislands of Surface-Anchored Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1620-1624.	13.8	29
28	Phosphorus poisoning during wet oxidation of methane over Pd@CeO ₂ /graphite model catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 197, 271-279.	20.2	28
29	The water gas shift reaction over Pt-CeO ₂ nanoparticles confined within mesoporous SBA-16. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20024-20034.	10.3	25
30	<i>In Situ</i> X-ray Raman Scattering Spectroscopy of the Formation of Cobalt Carbides in a Co/TiO ₂ Fischer-Tropsch Synthesis Catalyst. <i>ACS Catalysis</i> , 2021, 11, 809-819.	11.2	24
31	Enhanced photocatalytic hydrogen generation using carbazole-based sensitizers. <i>Sustainable Energy and Fuels</i> , 2017, 1, 694-698.	4.9	23
32	<i>In Situ</i> Shell-Isolated Nanoparticle-Enhanced Raman Spectroscopy of Nickel-Catalyzed Hydrogenation Reactions. <i>ChemPhysChem</i> , 2020, 21, 625-632.	2.1	21
33	Calcination temperature effects on Pd/alumina catalysts: Particle size, surface species and activity in methane combustion. <i>Catalysis Today</i> , 2021, 382, 120-129.	4.4	21
34	Alkali Promotion in the Formation of CH ₄ from CO ₂ and Renewably Produced H ₂ over Supported Ni Catalysts. <i>ChemCatChem</i> , 2020, 12, 2792-2800.	3.7	17
35	From metal to metal-free catalysts: Routes to sustainable chemistry. <i>Advances in Catalysis</i> , 2018, 63, 1-73.	0.2	16
36	Supported Mn ₃ O ₄ Nanosystems for Hydrogen Production through Ethanol Photoreforming. <i>Langmuir</i> , 2018, 34, 4568-4574.	3.5	13

#	ARTICLE	IF	CITATIONS
37	Nano-scale insights regarding coke formation in zeolite SSZ-13 subject to the methanol-to-hydrocarbons reaction. <i>Catalysis Science and Technology</i> , 2022, 12, 1220-1228.	4.1	13
38	New insights into the NH ₃ -selective catalytic reduction of NO over Cu-ZSM-5 as revealed by <i>in operando</i> spectroscopy. <i>Catalysis Science and Technology</i> , 2022, 12, 2589-2603.	4.1	12
39	A Study of How LaFeO ₃ and CaTiO ₃ Supports Affect the Oxidation, Hydrogenation, and Methane Steam Reforming Activity of Pt and Ni Catalysts. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11619-11628.	3.1	7
40	In situ Nanoscale Infrared Spectroscopy of Water Adsorption on Nanoislands of Surface-Anchored Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2021, 133, 1644-1648.	2.0	5
41	Crowded catalyst, better catalyst. <i>National Science Review</i> , 2021, 8, nwab141.	9.5	3
42	Methane Catalytic Combustion over Hierarchical Pd@CeO ₂ /Si-Al ₂ O ₃ : Effect of the Presence of Water. <i>ChemCatChem</i> , 2015, 7, 1978-1978.	3.7	2
43	Nanoscale Chemical Imaging in Zeolite Catalysts by Atom Probe Tomography. <i>Microscopy and Microanalysis</i> , 2021, 27, 984-985.	0.4	0