

Xavier Isidro Pereira-Hernández

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5755368/publications.pdf>

Version: 2024-02-01

19
papers

3,763
citations

623734

14
h-index

888059

17
g-index

21
all docs

21
docs citations

21
times ranked

4589
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermally stable single-atom platinum-on-ceria catalysts via atom trapping. <i>Science</i> , 2016, 353, 150-154.	12.6	1,487
2	Activation of surface lattice oxygen in single-atom Pt/CeO ₂ for low-temperature CO oxidation. <i>Science</i> , 2017, 358, 1419-1423.	12.6	1,114
3	Tuning Pt-CeO ₂ interactions by high-temperature vapor-phase synthesis for improved reducibility of lattice oxygen. <i>Nature Communications</i> , 2019, 10, 1358.	12.8	302
4	Stabilizing High Metal Loadings of Thermally Stable Platinum Single Atoms on an Industrial Catalyst Support. <i>ACS Catalysis</i> , 2019, 9, 3978-3990.	11.2	233
5	Elucidation of the Active Sites in Single-Atom Pd ₁ /CeO ₂ Catalysts for Low-Temperature CO Oxidation. <i>ACS Catalysis</i> , 2020, 10, 11356-11364.	11.2	123
6	Correlating DFT Calculations with CO Oxidation Reactivity on Ga-Doped Pt/CeO ₂ Single-Atom Catalysts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22460-22468.	3.1	91
7	Engineering catalyst supports to stabilize PdOx two-dimensional rafts for water-tolerant methane oxidation. <i>Nature Catalysis</i> , 2021, 4, 830-839.	34.4	86
8	Tailoring the Local Environment of Platinum in Single-Atom Pt ₁ /CeO ₂ Catalysts for Robust Low-Temperature CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26054-26062.	13.8	84
9	Recent advances in hybrid metal oxide-zeolite catalysts for low-temperature selective catalytic reduction of NOx by ammonia. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120054.	20.2	78
10	Investigation of the promoting effect of Mn on a Pt/C catalyst for the steam and aqueous phase reforming of glycerol. <i>Journal of Catalysis</i> , 2017, 349, 75-83.	6.2	40
11	Atomically Dispersed Dopants for Stabilizing Ceria Surface Area. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119722.	20.2	37
12	Liquid-phase hydrodeoxygenation of lignin-derived phenolics on Pd/Fe: A mechanistic study. <i>Catalysis Today</i> , 2020, 339, 305-311.	4.4	29
13	Mechanistic understanding of methanol carbonylation: Interfacing homogeneous and heterogeneous catalysis via carbon supported Ir La. <i>Journal of Catalysis</i> , 2018, 361, 414-422.	6.2	28
14	Steam reforming of simulated bio-oil on K-Ni-Cu-Mg-Ce-O/Al ₂ O ₃ : The effect of K. <i>Catalysis Today</i> , 2019, 323, 183-190.	4.4	19
15	Tailoring the Local Environment of Platinum in Single-Atom Pt ₁ /CeO ₂ Catalysts for Robust Low-Temperature CO Oxidation. <i>Angewandte Chemie</i> , 2021, 133, 26258-26266.	2.0	7
16	Designing Catalysts for Meeting the DOE 150 °C Challenge for Exhaust Emissions. <i>Microscopy and Microanalysis</i> , 2017, 23, 2028-2029.	0.4	4
17	Frontispiece: Tailoring the Local Environment of Platinum in Single-Atom Pt ₁ /CeO ₂ Catalysts for Robust Low-Temperature CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	13.8	1
18	Reply to: "Pitfalls in identifying active catalyst species". <i>Nature Communications</i> , 2020, 11, 4574.	12.8	0

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19	Frontispiz: Tailoring the Local Environment of Platinum in Single-Atom Pt ₁ /CeO ₂ Catalysts for Robust Low-Temperature CO Oxidation. <i>Angewandte Chemie</i> , 2021, 133, .	2.0	0