

Andrew T Delariva

List of Publications by Year in descending order

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32
papers

6,046
citations

331670

21
h-index

501196

28
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33
all docs

33
docs citations

33
times ranked

7319
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	Sintering of Catalytic Nanoparticles: Particle Migration or Ostwald Ripening?. <i>Accounts of Chemical Research</i> , 2013, 46, 1720-1730.	15.6	970
4	Low-temperature carbon monoxide oxidation catalysed by regenerable atomically dispersed palladium on alumina. <i>Nature Communications</i> , 2014, 5, 4885.	12.8	498
5	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
6	Relating Rates of Catalyst Sintering to the Disappearance of Individual Nanoparticles during Ostwald Ripening. <i>Journal of the American Chemical Society</i> , 2011, 133, 20672-20675.	13.7	250
7	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
8	CO oxidation by Pd supported on CeO ₂ (100) and CeO ₂ (111) facets. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 36-46.	20.2	231
9	Atomically Dispersed Pd ^{δ+} O Species on CeO ₂ (111) as Highly Active Sites for Low-Temperature CO Oxidation. <i>ACS Catalysis</i> , 2017, 7, 6887-6891.	11.2	208
10	X-ray Absorption Spectroscopy of Bimetallic Pt ^{δ+} Re Catalysts for Hydrogenolysis of Glycerol to Propanediols. <i>ChemCatChem</i> , 2010, 2, 1107-1114.	3.7	134
11	In situ Transmission Electron Microscopy of catalyst sintering. <i>Journal of Catalysis</i> , 2013, 308, 291-305.	6.2	106
12	Trapping of Mobile Pt Species by PdO Nanoparticles under Oxidizing Conditions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2089-2093.	4.6	77
13	In situ coarsening study of inverse micelle-prepared Pt nanoparticles supported on γ -Al ₂ O ₃ : pretreatment and environmental effects. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11457.	2.8	60
14	The CO oxidation mechanism and reactivity on PdZn alloys. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7768.	2.8	55
15	Regenerative trapping: How Pd improves the durability of Pt diesel oxidation catalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 581-590.	20.2	50
16	Catalytic reactivity of face centered cubic PdZn _{1±} for the steam reforming of methanol. <i>Journal of Catalysis</i> , 2012, 291, 44-54.	6.2	46
17	Atomically Dispersed Dopants for Stabilizing Ceria Surface Area. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119722.	20.2	37
18	Aerosol-Derived Bimetallic Alloy Powders: Bridging the Gap. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17181-17190.	3.1	33

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19	A High Entropy Oxide Designed to Catalyze CO Oxidation Without Precious Metals. ACS Applied Materials & Interfaces, 2021, 13, 8120-8128.	8.0	30
20	Investigating anomalous growth of platinum particles during accelerated aging of diesel oxidation catalysts. Applied Catalysis B: Environmental, 2020, 266, 118598.	20.2	27
21	Low-temperature aqueous-phase reforming of ethanol on bimetallic PdZn catalysts. Catalysis Science and Technology, 2015, 5, 254-263.	4.1	24
22	Environmentally benign synthesis of a PGM-free catalyst for low temperature CO oxidation. Applied Catalysis B: Environmental, 2020, 264, 118547.	20.2	20
23	Achieving high ethylene yield in non-oxidative ethane dehydrogenation. Applied Catalysis A: General, 2021, 624, 118309.	4.3	15
24	Synthesis of sub-2 nm ceria crystallites in carbon matrixes by simple pyrolysis of ion-exchange resins. Journal of Materials Chemistry, 2011, 21, 7418.	6.7	12
25	Designing Ceria/Alumina for Efficient Trapping of Platinum Single Atoms. ACS Sustainable Chemistry and Engineering, 2022, 10, 7603-7612.	6.7	9
26	Atomically Dispersed Tin-Modified γ -alumina for Selective Propane Dehydrogenation under H_2 Co-feed. ACS Catalysis, 2021, 11, 13472-13482.	11.2	8
27	Designing Catalysts for Meeting the DOE 150 °C Challenge for Exhaust Emissions. Microscopy and Microanalysis, 2017, 23, 2028-2029.	0.4	4
28	Restricting the growth of Pt nanoparticles through confinement in ordered nanoporous structures. Applied Catalysis A: General, 2020, 607, 117858.	4.3	4
29	Gas-Phase Hydrogen-Atom Measurement above Catalytic and Noncatalytic Materials during Ethane Dehydrogenation. Journal of Physical Chemistry C, 0, , .	3.1	2
30	Support Effects on Adatom Emission from Nanoparticles. Microscopy and Microanalysis, 2008, 14, 182-183.	0.4	0
31	Nucleation of Platinum on Carbon Blacks. ECS Transactions, 2010, 33, 73-82.	0.5	0
32	Reply to: "Pitfalls in identifying active catalyst species". Nature Communications, 2020, 11, 4574.	12.8	0