

# 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  
g-index

33  
all docs

33  
docs citations

33  
times ranked

7319  
citing authors

#	ARTICLE	IF	CITATIONS
1	Designing Ceria/Alumina for Efficient Trapping of Platinum Single Atoms. ACS Sustainable Chemistry and Engineering, 2022, 10, 7603-7612.	6.7	9
2	Atomically Dispersed Dopants for Stabilizing Ceria Surface Area. Applied Catalysis B: Environmental, 2021, 284, 119722.	20.2	37
3	A High Entropy Oxide Designed to Catalyze CO Oxidation Without Precious Metals. ACS Applied Materials & Interfaces, 2021, 13, 8120-8128.	8.0	30
4	Achieving high ethylene yield in non-oxidative ethane dehydrogenation. Applied Catalysis A: General, 2021, 624, 118309.	4.3	15
5	Atomically Dispersed Tin-Modified $\gamma$ -alumina for Selective Propane Dehydrogenation under $H_2$ Co-feed. ACS Catalysis, 2021, 11, 13472-13482.	11.2	8
6	Environmentally benign synthesis of a PGM-free catalyst for low temperature CO oxidation. Applied Catalysis B: Environmental, 2020, 264, 118547.	20.2	20
7	Reply to: "Pitfalls in identifying active catalyst species". Nature Communications, 2020, 11, 4574.	12.8	0
8	Restricting the growth of Pt nanoparticles through confinement in ordered nanoporous structures. Applied Catalysis A: General, 2020, 607, 117858.	4.3	4
9	Investigating anomalous growth of platinum particles during accelerated aging of diesel oxidation catalysts. Applied Catalysis B: Environmental, 2020, 266, 118598.	20.2	27
10	Tuning Pt-CeO <sub>2</sub> interactions by high-temperature vapor-phase synthesis for improved reducibility of lattice oxygen. Nature Communications, 2019, 10, 1358.	12.8	302
11	Stabilizing High Metal Loadings of Thermally Stable Platinum Single Atoms on an Industrial Catalyst Support. ACS Catalysis, 2019, 9, 3978-3990.	11.2	233
12	CO oxidation by Pd supported on CeO <sub>2</sub> (100) and CeO <sub>2</sub> (111) facets. Applied Catalysis B: Environmental, 2019, 243, 36-46.	20.2	231
13	Designing Catalysts for Meeting the DOE 150 °C Challenge for Exhaust Emissions. Microscopy and Microanalysis, 2017, 23, 2028-2029.	0.4	4
14	Atomically Dispersed Pd <sup>δ+</sup> O Species on CeO <sub>2</sub> (111) as Highly Active Sites for Low-Temperature CO Oxidation. ACS Catalysis, 2017, 7, 6887-6891.	11.2	208
15	Regenerative trapping: How Pd improves the durability of Pt diesel oxidation catalysts. Applied Catalysis B: Environmental, 2017, 218, 581-590.	20.2	50
16	Activation of surface lattice oxygen in single-atom Pt/CeO <sub>2</sub> for low-temperature CO oxidation. Science, 2017, 358, 1419-1423.	12.6	1,114
17	Thermally stable single-atom platinum-on-ceria catalysts via atom trapping. Science, 2016, 353, 150-154.	12.6	1,487
18	Low-temperature aqueous-phase reforming of ethanol on bimetallic PdZn catalysts. Catalysis Science and Technology, 2015, 5, 254-263.	4.1	24

#	ARTICLE	IF	CITATIONS
19	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
20	Low-temperature carbon monoxide oxidation catalysed by regenerable atomically dispersed palladium on alumina. <i>Nature Communications</i> , 2014, 5, 4885.	12.8	498
21	In situ Transmission Electron Microscopy of catalyst sintering. <i>Journal of Catalysis</i> , 2013, 308, 291-305.	6.2	106
22	The CO oxidation mechanism and reactivity on PdZn alloys. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7768.	2.8	55
23	Sintering of Catalytic Nanoparticles: Particle Migration or Ostwald Ripening?. <i>Accounts of Chemical Research</i> , 2013, 46, 1720-1730.	15.6	970
24	In situ coarsening study of inverse micelle-prepared Pt nanoparticles supported on $\gamma$ -Al <sub>2</sub> O <sub>3</sub> : pretreatment and environmental effects. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11457.	2.8	60
25	Catalytic reactivity of face centered cubic PdZn for the steam reforming of methanol. <i>Journal of Catalysis</i> , 2012, 291, 44-54.	6.2	46
26	Synthesis of sub-2 nm ceria crystallites in carbon matrixes by simple pyrolysis of ion-exchange resins. <i>Journal of Materials Chemistry</i> , 2011, 21, 7418.	6.7	12
27	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
28	X-ray Absorption Spectroscopy of Bimetallic Pt-Re Catalysts for Hydrogenolysis of Glycerol to Propanediols. <i>ChemCatChem</i> , 2010, 2, 1107-1114.	3.7	134
29	Nucleation of Platinum on Carbon Blacks. <i>ECS Transactions</i> , 2010, 33, 73-82.	0.5	0
30	Aerosol-Derived Bimetallic Alloy Powders: Bridging the Gap. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17181-17190.	3.1	33
31	Support Effects on Adatom Emission from Nanoparticles. <i>Microscopy and Microanalysis</i> , 2008, 14, 182-183.	0.4	0
32	Gas-Phase Hydrogen-Atom Measurement above Catalytic and Noncatalytic Materials during Ethane Dehydrogenation. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	2