Dragos Neagu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25 papers	2,593 citations	15 h-index	26 g-index
26 ext. papers	3,140 ext. citations	15.7 avg, IF	5.36 L-index

#	Paper	IF	Citations
25	In situ growth of nanoparticles through control of non-stoichiometry. *Nature Chemistry*, **2013**, 5, 916-23	17.6	569
24	Nano-socketed nickel particles with enhanced coking resistance grown in situ by redox exsolution. *Nature Communications*, **2015**, 6, 8120	17.4	438
23	Evolution of the electrochemical interface in high-temperature fuel cells and electrolysers. *Nature Energy*, **2016**, 1,	62.3	418
22	Switching on electrocatalytic activity in solid oxide cells. *Nature*, **2016**, 537, 528-531	50.4	276
21	Step-change in high temperature steam electrolysis performance of perovskite oxide cathodes with exsolution of B-site dopants. *Energy and Environmental Science*, **2013**, 6, 256-266	35.4	197
20	Structure and Properties of La0.4Sr0.4TiO3 Ceramics for Use as Anode Materials in Solid Oxide Fuel Cells. *Chemistry of Materials*, **2010**, 22, 5042-5053	9.6	155
19	Evidence and Model for Strain-Driven Release of Metal Nanocatalysts from Perovskites during Exsolution. *Journal of Physical Chemistry Letters*, **2015**, 6, 5106-10	6.4	103
18	Demonstration of chemistry at a point through restructuring and catalytic activation at anchored nanoparticles. *Nature Communications*, **2017**, 8, 1855	17.4	87
17	Observation of Nanoparticle Exsolution from Perovskite Oxides: From Atomic Scale Mechanistic Insight to Nanostructure Tailoring. *ACS Nano*, **2019**, 13, 12996-13005	16.7	78
16	Enhancing Electronic Conductivity in Strontium Titanates through Correlated A and B-Site Doping. *Chemistry of Materials*, **2011**, 23, 1607-1617	9.6	69
15	Endogenous Nanoparticles Strain Perovskite Host Lattice Providing Oxygen Capacity and Driving Oxygen Exchange and CH Conversion to Syngas. *Angewandte Chemie - International Edition*, **2020**, 59, 2510-2519	16.4	42
14	Exsolved Nickel Nanoparticles Acting as Oxygen Storage Reservoirs and Active Sites for Redox CH4 Conversion. *ACS Applied Energy Materials*, **2019**, 2, 7288-7298	6.1	33
13	Symmetrical Exsolution of Rh Nanoparticles in Solid Oxide Cells for Efficient Syngas Production from Greenhouse Gases. *ACS Catalysis*, **2020**, 10, 1278-1288	13.1	26
12	Towards efficient use of noble metals via exsolution exemplified for CO oxidation. *Nanoscale*, **2019**, 11, 16935-16944	7.7	24
11	Emergence and Future of Exsolved Materials. *Small*, **2021**, 17, e2006479	11	24
10	Low temperature methane conversion with perovskite-supported exo/endo-particles. *Journal of Materials Chemistry A*, **2020**, 8, 12406-12417	13	12
9	Dendritic silver self-assembly in molten-carbonate membranes for efficient carbon dioxide capture. *Energy and Environmental Science*, **2020**, 13, 1766-1775	35.4	10

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8	Exsolution of Catalytically Active Iridium Nanoparticles from Strontium Titanate. *ACS Applied Materials & Interfaces*, **2020**, 12, 37444-37453	9.5	9
7	Stability and activity controls of Cu nanoparticles for high-performance solid oxide fuel cells. *Applied Catalysis B: Environmental*, **2021**, 285, 119828	21.8	8
6	Combining Exsolution and Infiltration for Redox, Low Temperature CH4 Conversion to Syngas. *Catalysts*, **2020**, 10, 468	4	6
5	The effects of sulphur poisoning on the microstructure, composition and oxygen transport properties of perovskite membranes coated with nanoscale alumina layers. *Journal of Membrane Science*, **2021**, 618, 118736	9.6	3
4	In Situ Tailored Nickel Nano-Catalyst Layer for Internal Reforming Hydrocarbon Fueled SOFCs. *ECS Transactions*, **2015**, 68, 1121-1128	1	2
3	Calculation of a Standard Reformed Biogas Composition and Testing on SOFC Anode Powders. *ECS Transactions*, **2013**, 57, 1527-1532	1	2
2	Endogenous Nanoparticles Strain Perovskite Host Lattice Providing Oxygen Capacity and Driving Oxygen Exchange and CH4 Conversion to Syngas. *Angewandte Chemie*, **2020**, 132, 2531-2540	3.6	2
1	Measuring Membrane Permeation Rates through the Optical Visualization of a Single Pore. *ACS Applied Materials & Interfaces*, **2020**, 12, 16436-16441	9.5	0