

Dragos Neagu

List of Publications by Year in Descending Order

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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	Stability and activity controls of Cu nanoparticles for high-performance solid oxide fuel cells. <i>Applied Catalysis B: Environmental</i> , 2021 , 285, 119828	21.8	8
24	The effects of sulphur poisoning on the microstructure, composition and oxygen transport properties of perovskite membranes coated with nanoscale alumina layers. <i>Journal of Membrane Science</i> , 2021 , 618, 118736	9.6	3
23	Emergence and Future of Exsolved Materials. <i>Small</i> , 2021 , 17, e2006479	11	24
22	Low temperature methane conversion with perovskite-supported exo/endo-particles. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12406-12417	13	12
21	Measuring Membrane Permeation Rates through the Optical Visualization of a Single Pore. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16436-16441	9.5	0
20	Dendritic silver self-assembly in molten-carbonate membranes for efficient carbon dioxide capture. <i>Energy and Environmental Science</i> , 2020 , 13, 1766-1775	35.4	10
19	Combining Exsolution and Infiltration for Redox, Low Temperature CH ₄ Conversion to Syngas. <i>Catalysts</i> , 2020 , 10, 468	4	6
18	Endogenous Nanoparticles Strain Perovskite Host Lattice Providing Oxygen Capacity and Driving Oxygen Exchange and CH ₄ Conversion to Syngas. <i>Angewandte Chemie</i> , 2020 , 132, 2531-2540	3.6	2
17	Symmetrical Exsolution of Rh Nanoparticles in Solid Oxide Cells for Efficient Syngas Production from Greenhouse Gases. <i>ACS Catalysis</i> , 2020 , 10, 1278-1288	13.1	26
16	Endogenous Nanoparticles Strain Perovskite Host Lattice Providing Oxygen Capacity and Driving Oxygen Exchange and CH Conversion to Syngas. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2510-2519	16.4	42
15	Exsolution of Catalytically Active Iridium Nanoparticles from Strontium Titanate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37444-37453	9.5	9
14	Towards efficient use of noble metals via exsolution exemplified for CO oxidation. <i>Nanoscale</i> , 2019 , 11, 16935-16944	7.7	24
13	Exsolved Nickel Nanoparticles Acting as Oxygen Storage Reservoirs and Active Sites for Redox CH ₄ Conversion. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7288-7298	6.1	33
12	Observation of Nanoparticle Exsolution from Perovskite Oxides: From Atomic Scale Mechanistic Insight to Nanostructure Tailoring. <i>ACS Nano</i> , 2019 , 13, 12996-13005	16.7	78
11	Demonstration of chemistry at a point through restructuring and catalytic activation at anchored nanoparticles. <i>Nature Communications</i> , 2017 , 8, 1855	17.4	87
10	Switching on electrocatalytic activity in solid oxide cells. <i>Nature</i> , 2016 , 537, 528-531	50.4	276
9	Evolution of the electrochemical interface in high-temperature fuel cells and electrolyzers. <i>Nature Energy</i> , 2016 , 1,	62.3	418

8	Nano-socketed nickel particles with enhanced coking resistance grown in situ by redox exsolution. <i>Nature Communications</i> , 2015 , 6, 8120	17.4	438
7	In Situ Tailored Nickel Nano-Catalyst Layer for Internal Reforming Hydrocarbon Fueled SOFCs. <i>ECS Transactions</i> , 2015 , 68, 1121-1128	1	2
6	Evidence and Model for Strain-Driven Release of Metal Nanocatalysts from Perovskites during Exsolution. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 5106-10	6.4	103
5	In situ growth of nanoparticles through control of non-stoichiometry. <i>Nature Chemistry</i> , 2013 , 5, 916-23	17.6	569
4	Calculation of a Standard Reformed Biogas Composition and Testing on SOFC Anode Powders. <i>ECS Transactions</i> , 2013 , 57, 1527-1532	1	2
3	Step-change in high temperature steam electrolysis performance of perovskite oxide cathodes with exsolution of B-site dopants. <i>Energy and Environmental Science</i> , 2013 , 6, 256-266	35.4	197
2	Enhancing Electronic Conductivity in Strontium Titanates through Correlated A and B-Site Doping. <i>Chemistry of Materials</i> , 2011 , 23, 1607-1617	9.6	69
1	Structure and Properties of La _{0.4} Sr _{0.4} TiO ₃ Ceramics for Use as Anode Materials in Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2010 , 22, 5042-5053	9.6	155