

Davood Hosseini

List of Publications by Year in descending order

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14
papers

958
citations

687363

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996975

15
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15
all docs

15
docs citations

15
times ranked

1271
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperativity and Dynamics Increase the Performance of NiFe Dry Reforming Catalysts. Journal of the American Chemical Society, 2017, 139, 1937-1949.	13.7	322
2	Integrated CO ₂ Capture and Conversion as an Efficient Process for Fuels from Greenhouse Gases. ACS Catalysis, 2018, 8, 2815-2823.	11.2	168
3	Review of Oxygen Carriers for Chemical Looping with Oxygen Uncoupling (CLOU): Thermodynamics, Material Development, and Synthesis. Energy Technology, 2013, 1, 633-647.	3.8	167
4	Reversible Exsolution of Dopant Improves the Performance of Ca ₂ Fe ₂ O ₅ for Chemical Looping Hydrogen Production. ACS Applied Materials & Interfaces, 2019, 11, 18276-18284.	8.0	50
5	Mechanochemically Activated, Calcium Oxide-Based, Magnesium Oxide-Stabilized Carbon Dioxide Sorbents. ChemSusChem, 2016, 9, 2380-2390.	6.8	40
6	<i>In Situ</i> XRD and Dynamic Nuclear Polarization Surface Enhanced NMR Spectroscopy Unravel the Deactivation Mechanism of CaO-Based, Ca ₃ Al ₂ O ₆ -Stabilized CO ₂ Sorbents. Chemistry of Materials, 2018, 30, 1344-1352.	6.7	40
7	Development of a Steel-Slag-Based, Iron-Functionalized Sorbent for an Autothermal Carbon Dioxide Capture Process. ChemSusChem, 2015, 8, 3839-3846.	6.8	30
8	Single-Step Electrophoretic Deposition of Non-noble Metal Catalyst Layer with Low Onset Voltage for Ethanol Electro-oxidation. ACS Applied Materials & Interfaces, 2016, 8, 15975-15984.	8.0	29
9	Bi-functional Ru/Ca ₃ Al ₂ O ₆ -CaO catalyst-CO ₂ sorbent for the production of high purity hydrogen via sorption-enhanced steam methane reforming. Catalysis Science and Technology, 2019, 9, 5745-5756.	4.1	25
10	Reducibility and Dispersion Influence the Activity in Silica-Supported Vanadium-Based Catalysts for the Oxidative Dehydrogenation of Propane: The Case of Sodium Decavanadate. ACS Catalysis, 2020, 10, 2314-2321.	11.2	22
11	Ethanol electro-oxidation on nanoworm-shaped Pd particles supported by nanographitic layers fabricated by electrophoretic deposition. RSC Advances, 2015, 5, 52578-52587.	3.6	20
12	Development of an effective bi-functional Ni-CaO catalyst-sorbent for the sorption-enhanced water gas shift reaction through structural optimization and the controlled deposition of a stabilizer by atomic layer deposition. Sustainable Energy and Fuels, 2020, 4, 713-729.	4.9	20
13	Redox-Driven Restructuring of FeMnZr-Oxygen Carriers Enhances the Purity and Yield of H ₂ in a Chemical Looping Process. ACS Applied Energy Materials, 2018, 1, 1294-1303.	5.1	14
14	Structural insight into an atomic layer deposition (ALD) grown Al ₂ O ₃ layer on Ni/SiO ₂ : impact on catalytic activity and stability in dry reforming of methane. Catalysis Science and Technology, 2021, 11, 7563-7577.	4.1	10