

Agnieszka M Kierzkowska

List of Publications by Year in descending order

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24
papers

1,616
citations

430874

18
h-index

580821

25
g-index

27
all docs

27
docs citations

27
times ranked

1574
citing authors

#	ARTICLE	IF	CITATIONS
1	CaO-Based CO ₂ Sorbents: From Fundamentals to the Development of New, Highly Effective Materials. <i>ChemSusChem</i> , 2013, 6, 1130-1148.	6.8	287
2	Single Site Cobalt Substitution in 2D Molybdenum Carbide (MXene) Enhances Catalytic Activity in the Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 17809-17816.	13.7	259
3	Optimization of the structural characteristics of CaO and its effective stabilization yield high-capacity CO ₂ sorbents. <i>Nature Communications</i> , 2018, 9, 2408.	12.8	167
4	Multishelled CaO Microspheres Stabilized by Atomic Layer Deposition of Al ₂ O ₃ for Enhanced CO ₂ Capture Performance. <i>Advanced Materials</i> , 2017, 29, 1702896.	21.0	126
5	Sorbent-Enhanced Methane Reforming over a Ni-Ca-Based, Bifunctional Catalyst Sorbent. <i>ACS Catalysis</i> , 2012, 2, 1635-1646.	11.2	112
6	Highly Efficient CO ₂ Sorbents: Development of Synthetic, Calcium-Rich Dolomites. <i>Environmental Science & Technology</i> , 2012, 46, 559-565.	10.0	104
7	Development of calcium-based, copper-functionalised CO ₂ sorbents to integrate chemical looping combustion into calcium looping. <i>Energy and Environmental Science</i> , 2012, 5, 6061.	30.8	77
8	Application of the Sol-Gel Technique to Develop Synthetic Calcium-Based Sorbents with Excellent Carbon Dioxide Capture Characteristics. <i>ChemSusChem</i> , 2012, 5, 411-418.	6.8	70
9	Development of Highly Effective CaO-based, MgO-stabilized CO ₂ Sorbents via a Scalable One-Pot Recrystallization Technique. <i>Advanced Functional Materials</i> , 2014, 24, 5753-5761.	14.9	66
10	Reversible Exsolution of Dopant Improves the Performance of Ca ₂ Fe ₂ O ₅ for Chemical Looping Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18276-18284.	8.0	50
11	Ca-Cu looping process for CO ₂ capture from a power plant and its comparison with Ca-looping, oxy-combustion and amine-based CO ₂ capture processes. <i>International Journal of Greenhouse Gas Control</i> , 2015, 43, 198-212.	4.6	40
12	<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. <i>Chemistry of Materials</i> , 2018, 30, 1344-1352.	6.7	40
13	Sol-Gel-Derived, Calcium-Based, Copper-Functionalised CO ₂ Sorbents for an Integrated Chemical Looping Combustion-Calcium Looping CO ₂ Capture Process. <i>ChemPlusChem</i> , 2013, 78, 92-100.	2.8	33
14	Development of a Steel-Slag-Based, Iron-Functionalized Sorbent for an Autothermal Carbon Dioxide Capture Process. <i>ChemSusChem</i> , 2015, 8, 3839-3846.	6.8	30
15	Inverse Opal-Like, Ca ₃ Al ₂ O ₆ -Stabilized, CaO-Based CO ₂ Sorbent: Stabilization of a Highly Porous Structure To Improve Its Cyclic CO ₂ Uptake. <i>ACS Applied Energy Materials</i> , 2019, 2, 6461-6471.	5.1	26
16	Na ₂ CO ₃ -modified CaO-based CO ₂ sorbents: the effects of structure and morphology on CO ₂ uptake. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24697-24703.	2.8	22
17	ZrO ₂ -Supported Fe ₂ O ₃ for Chemical-Looping-Based Hydrogen Production: Effect of pH on Its Structure and Performance As Probed by X-ray Absorption Spectroscopy and Electrical Conductivity Measurements. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18977-18985.	3.1	21
18	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. <i>Sustainable Energy and Fuels</i> , 2020, 4, 713-729.	4.9	20

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19	Sol-gel Synthesis of MgAl ₂ O ₄ -stabilized CaO for CO ₂ Capture. Energy Procedia, 2017, 114, 220-229.	1.8	17
20	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
21	Correlating the Structural Evolution of ZnO/Al ₂ O ₃ to Spinel Zinc Aluminate with its Catalytic Performance in Propane Dehydrogenation. Journal of Physical Chemistry C, 2021, 125, 14065-14074.	3.1	14
22	Hydrogen dissociation sites on indium-based ZrO ₂ -supported catalysts for hydrogenation of CO ₂ to methanol. Catalysis Today, 2022, 387, 38-46.	4.4	11
23	Chemical Looping Partial Oxidation of Methane: Reducing Carbon Deposition through Alloying. Energy & Fuels, 2022, 36, 9780-9784.	5.1	7
24	Oxidative dehydrogenation of propane on silica-supported vanadyl sites promoted with sodium metavanadate. Catalysis Science and Technology, 2020, 10, 7186-7193.	4.1	2