

Andac Armutlulu

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,670
citations

361296

20
h-index

289141

40
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44
all docs

44
docs citations

44
times ranked

1786
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.	6.6	322
2	Optimization of the structural characteristics of CaO and its effective stabilization yield high-capacity CO ₂ sorbents. Nature Communications, 2018, 9, 2408.	5.8	167
3	Multishelled CaO Microspheres Stabilized by Atomic Layer Deposition of Al ₂ O ₃ for Enhanced CO ₂ Capture Performance. Advanced Materials, 2017, 29, 1702896.	11.1	126
4	CO ₂ Uptake and Cyclic Stability of MgO-Based CO ₂ Sorbents Promoted with Alkali Metal Nitrates and Their Eutectic Mixtures. ACS Applied Energy Materials, 2019, 2, 1295-1307.	2.5	79
5	Biodegradable magnesium/iron batteries with polycaprolactone encapsulation: A microfabricated power source for transient implantable devices. Microsystems and Nanoengineering, 2015, 1, .	3.4	76
6	Visible-light-driven removal of atrazine by durable hollow core-shell TiO ₂ @LaFeO ₃ heterojunction coupling with peroxymonosulfate via enhanced electron-transfer. Applied Catalysis B: Environmental, 2022, 303, 120889.	10.8	76
7	Exsolution of Metallic Ru Nanoparticles from Defective, Fluorite-Type Solid Solutions Sm ₂ Ru _x Ce _{2-2x} O ₇ To Impart Stability on Dry Reforming Catalysts. ACS Catalysis, 2020, 10, 1923-1937.	5.5	70
8	MCPATH: Monte Carlo path generation approach to predict likely allosteric pathways and functional residues. Nucleic Acids Research, 2013, 41, W249-W255.	6.5	66
9	Hydroxylamine-assisted catalytic degradation of ciprofloxacin in ferrate/persulfate system. Chemical Engineering Journal, 2019, 360, 612-620.	6.6	66
10	Operando X-ray Absorption Spectroscopy Identifies a Monoclinic ZrO ₂ :In Solid Solution as the Active Phase for the Hydrogenation of CO ₂ to Methanol. ACS Catalysis, 2020, 10, 10060-10067.	5.5	54
11	Enhanced ciprofloxacin degradation by electrochemical activation of persulfate using iron decorated carbon membrane cathode: Promoting direct single electron transfer to produce IO ₂ . Chemical Engineering Journal, 2022, 437, 135264.	6.6	41
12	Preventing Agglomeration of CuO-Based Oxygen Carriers for Chemical Looping Applications. ACS Sustainable Chemistry and Engineering, 2021, 9, 5972-5980.	3.2	36
13	CaO-Based CO ₂ Sorbents with a Hierarchical Porous Structure Made via Microfluidic Droplet Templating. Industrial & Engineering Chemistry Research, 2020, 59, 7182-7188.	1.8	29
14	Ultrafast removal of Cu(II) by a novel hierarchically structured faujasite-type zeolite fabricated from lithium silica fume. Science of the Total Environment, 2020, 714, 136724.	3.9	29
15	One-step fabrication of oxygen vacancy-enriched Fe@Ti/C composite for highly efficient degradation of organic pollutants through persulfate activation. Journal of Colloid and Interface Science, 2021, 583, 394-403.	5.0	29
16	CaO-Based CO ₂ Sorbents Effectively Stabilized by Metal Oxides. ChemPhysChem, 2017, 18, 3280-3285.	1.0	27
17	The development of effective CaO-based CO ₂ sorbents via a sacrificial templating technique. Faraday Discussions, 2016, 192, 85-95.	1.6	26
18	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. ACS Applied Energy Materials, 2019, 2, 6461-6471.	2.5	26

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19	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.	2.1	25
20	Development of High-performance CaO-based CO ₂ Sorbents Stabilized with Al ₂ O ₃ or MgO. Energy Procedia, 2017, 114, 158-166.	1.8	22
21	CO ₂ Uptake Potential of Ca-Based Air Pollution Control Residues over Repeated Carbonation•Calcination Cycles. Energy & Fuels, 2018, 32, 5386-5395.	2.5	20
22	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.	2.5	20
23	Development of Electroplated Magnesium Microstructures for Biodegradable Devices and Energy Sources. Journal of Microelectromechanical Systems, 2014, 23, 1281-1289.	1.7	18
24	The effect of copper on the redox behaviour of iron oxide for chemical-looping hydrogen production probed by <i>in situ</i> X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 12736-12745.	1.3	18
25	A MEMS-enabled biodegradable battery for powering transient implantable devices. , 2014, , .		16
26	Reliability of Copper Through-Package Vias in Bare Glass Interposers. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 829-837.	1.4	16
27	Effect of molten sodium nitrate on the decomposition pathways of hydrated magnesium hydroxycarbonate to magnesium oxide probed by <i>in situ</i> total scattering. Nanoscale, 2020, 12, 16462-16473.	2.8	16
28	Novel sodalite stabilized zero-valent iron for super stable and outstanding efficiency in activating persulfate for organic pollutants fast removal. Science of the Total Environment, 2022, 825, 153893.	3.9	15
29	A MEMS-enabled 3D zinc•air microbattery with improved discharge characteristics based on a multilayer metallic substructure. Journal of Micromechanics and Microengineering, 2011, 21, 104011.	1.5	14
30	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.	1.5	14
31	First demonstration of reliable copper-plated 30•m diameter through-package-vias in ultra-thin bare glass interposers. , 2014, , .		12
32	Green Synthesis of Mesoporous Sodalite and Graphene Oxide Hybrid Sodalite Using Lithium Silica Fume Waste. ACS Sustainable Chemistry and Engineering, 2021, 9, 5085-5094.	3.2	12
33	Highly efficient removal of Cu(II) using mesoporous sodalite zeolite produced from industrial waste lithium-silicon-fume via reactive oxidation species route. Journal of Cleaner Production, 2021, 319, 128682.	4.6	12
34	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.	2.1	10
35	Na•Al ₂ O ₃ stabilized Fe ₂ O ₃ oxygen carriers for chemical looping water splitting: correlating structure with redox stability. Journal of Materials Chemistry A, 2022, 10, 10692-10700.	5.2	10
36	Thick Multilayered Micromachined Permanent Magnets With Preserved Magnetic Properties. Journal of Microelectromechanical Systems, 2016, 25, 498-507.	1.7	9

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37	Facile synthesis of novel 3D flower-like magnetic La@Fe/C composites from ilmenite for efficient phosphate removal from aqueous solution. RSC Advances, 2019, 9, 28312-28322.	1.7	9
38	Supercapacitor Electrodes Based on Three-dimensional Copper Structures with Precisely Controlled Dimensions. ChemElectroChem, 2015, 2, 236-245.	1.7	7
39	Atomic Layer Deposition of a Film of Al ₂ O ₃ on Electrodeposited Copper Foams To Yield Highly Effective Oxygen Carriers for Chemical Looping Combustion-Based CO ₂ Capture. ACS Applied Materials & Interfaces, 2018, 10, 37994-38005.	4.0	7
40	Nickel-oxide-based supercapacitors with high aspect ratio concentric cylindrical electrodes. , 2013, , .		6
41	Microfabricated nickel-based electrodes for high-power battery applications. Journal of Micromechanics and Microengineering, 2013, 23, 114008.	1.5	6
42	CCS "A technology for now: general discussion. Faraday Discussions, 2016, 192, 125-151.	1.6	5
43	Model-assisted development of microfabricated 3D Ni(OH) ₂ electrodes with rapid charging capabilities. Journal of Power Sources, 2017, 358, 101-111.	4.0	5