

Patrizia Frontera

List of Publications by Year in descending order

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84
papers

2,106
citations

257450

24
h-index

254184

43
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85
all docs

85
docs citations

85
times ranked

2736
citing authors

#	ARTICLE	IF	CITATIONS
1	Supported Catalysts for CO ₂ Methanation: A Review. <i>Catalysts</i> , 2017, 7, 59.	3.5	490
2	Activity and stability of powder and monolith-coated Ni/GDC catalysts for CO ₂ methanation. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 384-395.	20.2	126
3	Recovery/Reuse of Heterogeneous Supported Spent Catalysts. <i>Catalysts</i> , 2021, 11, 591.	3.5	112
4	Effect of support surface on methane dry-reforming catalyst preparation. <i>Catalysis Today</i> , 2013, 218-219, 18-29.	4.4	79
5	Binders alternative to Portland cement and waste management for sustainable construction – part 1. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 186-202.	1.6	57
6	Transformation of MCM-22(P) into ITQ-2: The role of framework aluminium. <i>Microporous and Mesoporous Materials</i> , 2007, 106, 107-114.	4.4	50
7	Catalytic dry-reforming on Ni – zeolite supported catalyst. <i>Catalysis Today</i> , 2012, 179, 52-60.	4.4	49
8	Binders alternative to Portland cement and waste management for sustainable construction – Part 2. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 207-221.	1.6	45
9	Direct utilization of methanol in solid oxide fuel cells: An electrochemical and catalytic study. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 9977-9986.	7.1	41
10	The role of Gadolinia Doped Ceria support on the promotion of CO ₂ methanation over Ni and Ni Fe catalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26828-26842.	7.1	35
11	Electro-spun graphene-enriched carbon fibres with high nitrogen-contents for electrochemical water desalination. <i>Desalination</i> , 2018, 428, 40-49.	8.2	34
12	Sustainable Exploitation of Coffee Silverskin in Water Remediation. <i>Sustainability</i> , 2018, 10, 3547.	3.2	34
13	Bimetallic Zeolite Catalyst for CO ₂ Reforming of Methane. <i>Topics in Catalysis</i> , 2010, 53, 265-272.	2.8	33
14	Preparation and characterization of active Ni-supported catalyst for syngas production. <i>Chemical Engineering Research and Design</i> , 2015, 96, 78-86.	5.6	33
15	Thermoelectric characterization of an intermediate temperature solid oxide fuel cell system directly fed by dry biogas. <i>Energy Conversion and Management</i> , 2016, 127, 90-102.	9.2	33
16	Gas sensing properties under UV radiation of In ₂ O ₃ nanostructures processed by electrospinning. <i>Materials Chemistry and Physics</i> , 2014, 147, 35-41.	4.0	32
17	Investigation of Ni-based alloy/CGO electro-catalysts as protective layer for a solid oxide fuel cell anode fed with ethanol. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 647-656.	2.9	30
18	Production of Geopolymeric Mortars Containing Forest Biomass Ash as Partial Replacement of Metakaolin. <i>Environments - MDPI</i> , 2017, 4, 74.	3.3	28

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19	Evaluation of the sustainability of technologies to recycle spent lithium-ion batteries, based on embodied energy and carbon footprint. <i>Journal of Cleaner Production</i> , 2022, 338, 130493.	9.3	28
20	Zeolite-supported Ni catalyst for methane reforming with carbon dioxide. <i>Research on Chemical Intermediates</i> , 2011, 37, 267-279.	2.7	26
21	Electrospinning of Polyaniline: Effect of Different Raw Sources. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 4744-4751.	0.9	26
22	Electrochemical characterization of highly abundant, low cost iron (III) oxide as anode material for sodium-ion rechargeable batteries. <i>Electrochimica Acta</i> , 2018, 269, 367-377.	5.2	26
23	Ni-Cu based catalysts prepared by two different methods and their catalytic activity toward the ATR of methane. <i>Chemical Engineering Research and Design</i> , 2015, 93, 269-277.	5.6	24
24	CO ₂ sensing properties of electro-spun Ca-doped ZnO fibres. <i>Nanotechnology</i> , 2018, 29, 305501.	2.6	24
25	Silica gel microfibres by electrospinning for adsorption chillers. <i>Energy</i> , 2019, 187, 115971.	8.8	23
26	Characterisation and H ₂ O ₂ sensing properties of TiO ₂ -CNTs/Pt electro-catalysts. <i>Materials Chemistry and Physics</i> , 2016, 170, 129-137.	4.0	22
27	Electro-spun Co ₃ O ₄ anode material for Na-ion rechargeable batteries. <i>Solid State Ionics</i> , 2017, 309, 41-47.	2.7	22
28	Electrospun C/GeO ₂ paper-like electrodes for flexible Li-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28102-28112.	7.1	22
29	Are Electrospun Fibrous Membranes Relevant Electrode Materials for Li-Ion Batteries? The Case of the C/Ge/GeO ₂ Composite Fibers. <i>Advanced Functional Materials</i> , 2018, 28, 1800938.	14.9	22
30	Nanostructured Catalysts for Dry-Reforming of Methane. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3135-3147.	0.9	22
31	CO ₂ and CO hydrogenation over Ni-supported materials. <i>Functional Materials Letters</i> , 2018, 11, 1850061.	1.2	21
32	Trimetallic Ni-Based Catalysts over Gadolinia-Doped Ceria for Green Fuel Production. <i>Catalysts</i> , 2018, 8, 435.	3.5	20
33	Evaluation of the electrochemical performance of electrospun transition metal oxide-based electrode nanomaterials for water CDI applications. <i>Electrochimica Acta</i> , 2019, 309, 125-139.	5.2	20
34	Hydrolysis of Alkyl Ester on Lipase/Silicalite-1 Catalyst. <i>Catalysis Letters</i> , 2008, 122, 43-52.	2.6	19
35	Ferrierite zeolitic thin-layer on cordierite honeycomb support by clear solutions. <i>Materials Letters</i> , 2013, 104, 72-75.	2.6	19
36	Are Electrospun Carbon/Metal Oxide Composite Fibers Relevant Electrode Materials for Li-Ion Batteries?. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2930-A2937.	2.9	19

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37	Pd/Fe ₃ O ₄ Nanofibers for the Catalytic Conversion of Lignin-Derived Benzyl Phenyl Ether under Transfer Hydrogenolysis Conditions. <i>Catalysts</i> , 2020, 10, 20.	3.5	19
38	Catalytic behavior of Ni-modified perovskite and doped ceria composite catalyst for the conversion of odorized propane to syngas. <i>Fuel Processing Technology</i> , 2013, 113, 28-33.	7.2	18
39	Propane-fed Solid Oxide Fuel Cell Based on a Composite Ni-La-CGO Anode Catalyst. <i>Catalysis Letters</i> , 2010, 136, 57-64.	2.6	17
40	Hybrid Zeolite SAPO-34 Fibres Made by Electrospinning. <i>Materials</i> , 2018, 11, 2555.	2.9	16
41	Effect of calcium- and/or aluminum-incorporation on morphological, structural and photoluminescence properties of electro-spun zinc oxide fibers. <i>Materials Research Bulletin</i> , 2017, 92, 9-18.	5.2	15
42	Manufacturing and Assessment of Electrospun PVP/TEOS Microfibres for Adsorptive Heat Transformers. <i>Coatings</i> , 2019, 9, 443.	2.6	15
43	Simultaneous methanation of carbon oxides on nickel-iron catalysts supported on ceria-doped gadolinia. <i>Catalysis Today</i> , 2020, 357, 565-572.	4.4	15
44	The Improvement of Durability of Reinforced Concretes for Sustainable Structures: A Review on Different Approaches. <i>Materials</i> , 2022, 15, 2728.	2.9	15
45	Oxygen-sensing properties of electrospun CNTs/PVAc/TiO ₂ composites. <i>Electronic Materials Letters</i> , 2014, 10, 305-313.	2.2	14
46	Comparison between Ni-Rh/gadolinia doped ceria catalysts in reforming of propane for anode implementations in intermediate solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 649-661.	7.8	13
47	A new approach to the synthesis of titania nano-powders enriched with very high contents of carbon nanotubes by electro-spinning. <i>Materials Chemistry and Physics</i> , 2015, 153, 338-345.	4.0	13
48	Catalytic activity of Ni-Co supported metals in carbon dioxides methanation. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 1924-1934.	1.7	13
49	Comparative life cycle assessment of Fe ₂ O ₃ -based fibers as anode materials for sodium-ion batteries. <i>Environment, Development and Sustainability</i> , 2021, 23, 6786-6799.	5.0	12
50	Self Standing Mats of Blended Polyaniline Produced by Electrospinning. <i>Nanomaterials</i> , 2021, 11, 1269.	4.1	12
51	Catalytic features of Ni/Ba-Ce _{0.9} Y _{0.1} catalyst to produce hydrogen for PCFCs by methane reforming. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11661-11668.	7.1	11
52	Advanced Adsorbent Materials for Waste Energy Recovery. <i>Energies</i> , 2020, 13, 4299.	3.1	11
53	Smart recycling of carbon oxides: Current status of methanation reaction. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2020, 26, 100376.	5.9	10
54	High surface area Ti-based mixed oxides nanofibers prepared by electrospinning. <i>Materials Letters</i> , 2014, 134, 281-285.	2.6	9

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55	Zeolite LTA deposition on silicon wafer. <i>Journal of Porous Materials</i> , 2007, 14, 325-329.	2.6	8
56	Characterization of (Fe,Al)FER synthesized in presence of ethylene glycol and ethylene diamine. <i>Microporous and Mesoporous Materials</i> , 2010, 127, 9-16.	4.4	8
57	Effect of Ti- or Si-doping on nanostructure and photo-electro-chemical activity of electro-spun iron oxide fibres. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28070-28081.	7.1	8
58	ESCAPE approach for the sustainability evaluation of spent lithium-ion batteries recovery: Dataset of 33 available technologies. <i>Data in Brief</i> , 2022, 42, 108018.	1.0	8
59	Nafion®/SUP> Electro-Spun Reinforced Membranes for Polymer Electrolyte Fuel Cell. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8768-8774.	0.9	7
60	Polyaniline nanofibers: Towards pure electrospun PANI. , 2012, , .		7
61	CO ₂ Adsorption Investigation on an Innovative Nanocomposite Material with Hierarchical Porosity. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3223-3231.	0.9	7
62	Focus on Materials for Sulfur-Resistant Catalysts in the Reforming of Biofuels. <i>Catalysts</i> , 2021, 11, 1029.	3.5	7
63	In situ Synthesis of FAU-Type Zeolite Layer on Cordierite Support. <i>Topics in Catalysis</i> , 2004, 30/31, 369-373.	2.8	5
64	Synthesis of MCM-41 materials in the presence of cetylpyridinium surfactant. <i>Studies in Surface Science and Catalysis</i> , 2004, 154, 424-431.	1.5	5
65	Electrospinning fabrication of polyvinyl alcohol and polyvinyl pyrrolidone/Sm(NO ₃) ₃ -Sm ₂ O ₃ composites nanofibers. <i>Journal of Composite Materials</i> , 2013, 47, 1575-1581.	2.4	5
66	Recent Trends in Sustainability Assessment of "Green Concrete". <i>Smart Innovation, Systems and Technologies</i> , 2021, , 1402-1412.	0.6	5
67	Competitive Detection of Volatile Compounds from Food Degradation by a Zinc Oxide Sensor. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2261.	2.5	5
68	Doped Zinc Oxide Sensors for Hexanal Detection. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 279-285.	0.4	3
69	The strength effects of synthetic zeolites on properties of high performance concrete. <i>WIT Transactions on the Built Environment</i> , 2006, , .	0.0	3
70	Investigation on the Suitability of Engelhard Titanium Silicate as a Support for Ni-Catalysts in the Methanation Reaction. <i>Catalysts</i> , 2021, 11, 1225.	3.5	3
71	Direct synthesis of zeolites self-bonded pellets for biocatalyst immobilization. <i>Studies in Surface Science and Catalysis</i> , 2005, 158, 383-390.	1.5	2
72	Rheological Influence of Synthetic Zeolite on Cement Pastes. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	2

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73	Preparation of PVA/ Sm(NO ₃) ₃ -Sm ₂ O ₃ Composites Nanofibers by Electrospinning Technique. Advances in Science and Technology, 2010, 71, 22-27.	0.2	2
74	Advances in Poly (4-aminodiphenylaniline) Nanofibers Preparation by Electrospinning Technique. Journal of Nanoscience and Nanotechnology, 2016, 16, 5369-5377.	0.9	2
75	Alkaline-Promoted Zeolites for Methane Dry-Reforming Catalyst Preparation. Advanced Science Letters, 2017, 23, 5883-5885.	0.2	2
76	Effect of Commercial LTA Type Zeolite Inclusion in Properties of Structural Epoxy Adhesive. Advanced Science Letters, 2017, 23, 5927-5930.	0.2	2
77	New material as Ni-support for hydrogen production by ethanol conversion. WIT Transactions on Engineering Sciences, 2014, , .	0.0	2
78	Optimization of zeolite Y synthesis using industrial reagents by seeding technique. Studies in Surface Science and Catalysis, 2008, , 237-240.	1.5	1
79	Fuel Flexible Anode for Solid Oxide Fuel Cells: An Electrochemical and Catalytic Study. ECS Transactions, 2011, 35, 1753-1760.	0.5	1
80	Sensing Properties of Indium, Tin and Zinc Oxides for Hexanal Detection. Lecture Notes in Electrical Engineering, 2019, , 39-44.	0.4	1
81	Microfiber Textiles of Adsorbing Materials for Heat Transformations. Heat Transfer Engineering, 2022, 43, 1652-1663.	1.9	1
82	<i>A Special Section on</i> Nanostructured Materials for CO ₂ Exploitation for Chemicals and Fuels Production. Journal of Nanoscience and Nanotechnology, 2019, 19, 3057-3058.	0.9	0
83	Eco-efficient self-compacting concrete with silica sand waste. WIT Transactions on Engineering Sciences, 2014, , .	0.0	0
84	Conductive Electrospun Nanofibers for Multifunctional Portable Devices. , 2021, 5, .		0