Patrizia Frontera

List of Publications by Year
in descending order

84	2,106	257450 24	254184 43
papers	citations	h-index	g-index

85	85	85	2736
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microfiber Textiles of Adsorbing Materials for Heat Transformations. Heat Transfer Engineering, 2022, 43, 1652-1663.	1.9	1
2	Evaluation of the sustainability of technologies to recycle spent lithium-ion batteries, based on embodied energy and carbon footprint. Journal of Cleaner Production, 2022, 338, 130493.	9.3	28
3	Competitive Detection of Volatile Compounds from Food Degradation by a Zinc Oxide Sensor. Applied Sciences (Switzerland), 2022, 12, 2261.	2.5	5
4	The Improvement of Durability of Reinforced Concretes for Sustainable Structures: A Review on Different Approaches. Materials, 2022, 15, 2728.	2.9	15
5	ESCAPE approach for the sustainability evaluation of spent lithium-ion batteries recovery: Dataset of 33 available technologies. Data in Brief, 2022, 42, 108018.	1.0	8
6	Comparative life cycle assessment of Fe2O3-based fibers as anode materials for sodium-ion batteries. Environment, Development and Sustainability, 2021, 23, 6786-6799.	5.0	12
7	Self Standing Mats of Blended Polyaniline Produced by Electrospinning. Nanomaterials, 2021, 11, 1269.	4.1	12
8	Recovery/Reuse of Heterogeneous Supported Spent Catalysts. Catalysts, 2021, 11, 591.	3.5	112
9	Focus on Materials for Sulfur-Resistant Catalysts in the Reforming of Biofuels. Catalysts, 2021, 11, 1029.	3.5	7
10	Recent Trends in Sustainability Assessment of â€œGreen Concreteâ€• Smart Innovation, Systems and Technologies, 2021, , 1402-1412.	0.6	5
11	Investigation on the Suitability of Engelhard Titanium Silicate as a Support for Ni-Catalysts in the Methanation Reaction. Catalysts, 2021, 11, 1225.	3.5	3
12	Conductive Electrospun Nanofibers for Multifunctional Portable Devices. , 2021, 5, .		0
13	Simultaneous methanation of carbon oxides on nickel-iron catalysts supported on ceria-doped gadolinia. Catalysis Today, 2020, 357, 565-572.	4.4	15
14	Advanced Adsorbent Materials for Waste Energy Recovery. Energies, 2020, 13, 4299.	3.1	11
15	Catalytic activity of <scp>Niâ€Co</scp> supported metals in carbon dioxides methanation. Canadian Journal of Chemical Engineering, 2020, 98, 1924-1934.	1.7	13
16	Pd/Fe3O4 Nanofibers for the Catalytic Conversion of Lignin-Derived Benzyl Phenyl Ether under Transfer Hydrogenolysis Conditions. Catalysts, 2020, 10, 20.	3.5	19
17	Smart recycling of carbon oxides: Current status of methanation reaction. Current Opinion in Green and Sustainable Chemistry, 2020, 26, 100376.	5.9	10
18	Doped Zinc Oxide Sensors for Hexanal Detection. Lecture Notes in Electrical Engineering, 2020, , 279-285.	0.4	3

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19	Manufacturing and Assessment of Electrospun PVP/TEOS Microfibres for Adsorptive Heat Transformers. Coatings, 2019, 9, 443.	2.6	15
20	Silica gel microfibres by electrospinning for adsorption chillers. Energy, 2019, 187, 115971.	8.8	23
21	Nanostructured Catalysts for Dry-Reforming of Methane. Journal of Nanoscience and Nanotechnology, 2019, 19, 3135-3147.	0.9	22
22	A Special Section on Nanostructured Materials for CO₂ Exploitation for Chemicals and Fuels Production. Journal of Nanoscience and Nanotechnology, 2019, 19, 3057-3058.	0.9	0
23	CO₂ Adsorption Investigation on an Innovative Nanocomposite Material with Hierarchical Porosity. Journal of Nanoscience and Nanotechnology, 2019, 19, 3223-3231.	0.9	7
24	Evaluation of the electrochemical performance of electrospun transition metal oxide-based electrode nanomaterials for water CDI applications. Electrochimica Acta, 2019, 309, 125-139.	5.2	20
25	Sensing Properties of Indium, Tin and Zinc Oxides for Hexanal Detection. Lecture Notes in Electrical Engineering, 2019, , 39-44.	0.4	1
26	Electrochemical characterization of highly abundant, low cost iron (III) oxide as anode material for sodium-ion rechargeable batteries. Electrochimica Acta, 2018, 269, 367-377.	5.2	26
27	Activity and stability of powder and monolith-coated Ni/GDC catalysts for CO2 methanation. Applied Catalysis B: Environmental, 2018, 226, 384-395.	20.2	126
28	CO₂sensing properties of electro-spun Ca-doped ZnO fibres. Nanotechnology, 2018, 29, 305501.	2.6	24
29	Electro-spun graphene-enriched carbon fibres with high nitrogen-contents for electrochemical water desalination. Desalination, 2018, 428, 40-49.	8.2	34
30	Hybrid Zeolite SAPO-34 Fibres Made by Electrospinning. Materials, 2018, 11, 2555.	2.9	16
31	Sustainable Exploitation of Coffee Silverskin in Water Remediation. Sustainability, 2018, 10, 3547.	3.2	34
32	Trimetallic Ni-Based Catalysts over Gadolinia-Doped Ceria for Green Fuel Production. Catalysts, 2018, 8, 435.	3.5	20
33	Are Electrospun Fibrous Membranes Relevant Electrode Materials for Liâ€ion Batteries? The Case of the C/Ge/GeO₂ Composite Fibers. Advanced Functional Materials, 2018, 28, 1800938.	14.9	22
34	Binders alternative to Portland cement and waste management for sustainable constructionâ€"part 1. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 186-202.	1.6	57
35	Binders alternative to Portland cement and waste management for sustainable construction â€“ Part 2. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 207-221.	1.6	45
36	CO₂ and CO hydrogenation over Ni-supported materials. Functional Materials Letters, 2018, 11, 1850061.	1.2	21

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37	Effect of calcium- and/or aluminum-incorporation on morphological, structural and photoluminescence properties of electro-spun zinc oxide fibers. Materials Research Bulletin, 2017, 92, 9-18.	5.2	15
38	Effect of Ti- or Si-doping on nanostructure and photo-electro-chemical activity of electro-spun iron oxide fibres. International Journal of Hydrogen Energy, 2017, 42, 28070-28081.	7.1	8
39	The role of Gadolinia Doped Ceria support on the promotion of CO2 methanation over Ni and Ni Fe catalysts. International Journal of Hydrogen Energy, 2017, 42, 26828-26842.	7.1	35
40	Electro-spun Co3O4 anode material for Na-ion rechargeable batteries. Solid State Ionics, 2017, 309, 41-47.	2.7	22
41	Electrospun C/GeO 2 paper-like electrodes forÂflexible Li-ion batteries. International Journal of Hydrogen Energy, 2017, 42, 28102-28112.	7.1	22
42	Supported Catalysts for CO2 Methanation: A Review. Catalysts, 2017, 7, 59.	3.5	490
43	Production of Geopolymeric Mortars Containing Forest Biomass Ash as Partial Replacement of Metakaolin. Environments - MDPI, 2017, 4, 74.	3.3	28
44	Alkaline-Promoted Zeolites for Methane Dry-Reforming Catalyst Preparation. Advanced Science Letters, 2017, 23, 5883-5885.	0.2	2
45	Effect of Commercial LTA Type Zeolite Inclusion in Properties of Structural Epoxy Adhesive. Advanced Science Letters, 2017, 23, 5927-5930.	0.2	2
46	Thermoelectric characterization of an intermediate temperature solid oxide fuel cell system directly fed by dry biogas. Energy Conversion and Management, 2016, 127, 90-102.	9.2	33
47	Are Electrospun Carbon/Metal Oxide Composite Fibers Relevant Electrode Materials for Li-Ion Batteries?. Journal of the Electrochemical Society, 2016, 163, A2930-A2937.	2.9	19
48	Advances in Poly (4-aminodiphenylaniline) Nanofibers Preparation by Electrospinning Technique. Journal of Nanoscience and Nanotechnology, 2016, 16, 5369-5377.	0.9	2
49	Characterisation and H 2 O 2 sensing properties of TiO 2 -CNTs/Pt electro-catalysts. Materials Chemistry and Physics, 2016, 170, 129-137.	4.0	22
50	Investigation of Ni-based alloy/CGO electro-catalysts as protective layer for a solid oxide fuel cell anode fed with ethanol. Journal of Applied Electrochemistry, 2015, 45, 647-656.	2.9	30
51	A new approach to the synthesis of titania nano-powders enriched with very high contents of carbon nanotubes by electro-spinning. Materials Chemistry and Physics, 2015, 153, 338-345.	4.0	13
52	Preparation and characterization of active Ni-supported catalyst for syngas production. Chemical Engineering Research and Design, 2015, 96, 78-86.	5.6	33
53	Niâ€“Cu based catalysts prepared by two different methods and their catalytic activity toward the ATR of methane. Chemical Engineering Research and Design, 2015, 93, 269-277.	5.6	24
54	Oxygen-sensing properties of electrospun CNTs/PVAc/TiO2 composites. Electronic Materials Letters, 2014, 10, 305-313.	2.2	14

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55	High surface area Ti-based mixed oxides nanofibers prepared by electrospinning. Materials Letters, 2014, 134, 281-285.	2.6	9
56	Gas sensing properties under UV radiation of In2O3 nanostructures processed by electrospinning. Materials Chemistry and Physics, 2014, 147, 35-41.	4.0	32
57	New material as Ni-support for hydrogen production by ethanol conversion. WIT Transactions on Engineering Sciences, 2014, , .	0.0	2
58	Eco-efficient self-compacting concrete with silica sand waste. WIT Transactions on Engineering Sciences, 2014, , .	0.0	0
59	Effect of support surface on methane dry-reforming catalyst preparation. Catalysis Today, 2013, 218-219, 18-29.	4.4	79
60	Catalytic behavior of Ni-modified perovskite and doped ceria composite catalyst for the conversion of odorized propane to syngas. Fuel Processing Technology, 2013, 113, 28-33.	7.2	18
61	Ferrierite zeolitic thin-layer on cordierite honeycomb support by clear solutions. Materials Letters, 2013, 104, 72-75.	2.6	19
62	Electrospinning of Polyaniline: Effect of Different Raw Sources. Journal of Nanoscience and Nanotechnology, 2013, 13, 4744-4751.	0.9	26
63	Electrospinning fabrication of polyvinyl alcohol and polyvinyl pyrrolidone/Sm(NO3)3-Sm2O3 composites nanofibers. Journal of Composite Materials, 2013, 47, 1575-1581.	2.4	5
64	Polyaniline nanofibers: Towards pure electrospun PANI. , 2012, , .		7
65	Catalytic dry-reforming on Niâ€“zeolite supported catalyst. Catalysis Today, 2012, 179, 52-60.	4.4	49
66	Nafion^{Â®} Electro-Spun Reinforced Membranes for Polymer Electrolyte Fuel Cell. Journal of Nanoscience and Nanotechnology, 2011, 11, 8768-8774.	0.9	7
67	Direct utilization of methanol in solid oxide fuel cells: An electrochemical and catalytic study. International Journal of Hydrogen Energy, 2011, 36, 9977-9986.	7.1	41
68	Zeolite-supported Ni catalyst for methane reforming with carbon dioxide. Research on Chemical Intermediates, 2011, 37, 267-279.	2.7	26
69	Fuel Flexible Anode for Solid Oxide Fuel Cells: An Electrochemical and Catalytic Study. ECS Transactions, 2011, 35, 1753-1760.	0.5	1
70	Propane-fed Solid Oxide Fuel Cell Based on a Composite Ni-La-CGO Anode Catalyst. Catalysis Letters, 2010, 136, 57-64.	2.6	17
71	Bimetallic Zeolite Catalyst for CO2 Reforming of Methane. Topics in Catalysis, 2010, 53, 265-272.	2.8	33
72	Characterization of (Fe,Al)FER synthesized in presence of ethylene glycol and ethylene diamine. Microporous and Mesoporous Materials, 2010, 127, 9-16.	4.4	8

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73	Comparison between Niâ€“Rh/gadolinia doped ceria catalysts in reforming of propane for anode implementations in intermediate solid oxide fuel cells. Journal of Power Sources, 2010, 195, 649-661.	7.8	13
74	Catalytic features of Ni/Baâ€“Ce0.9â€“Y0.1 catalyst to produce hydrogen for PCFCs by methane reforming. International Journal of Hydrogen Energy, 2010, 35, 11661-11668.	7.1	11
75	Preparation of PVA/ Sm(NO₃)₃-Sm₂O₃ Composites Nanofibers by Electrospinning Technique. Advances in Science and Technology, 2010, 71, 22-27.	0.2	2
76	Hydrolysis of Alkyl Ester on Lipase/Silicalite-1 Catalyst. Catalysis Letters, 2008, 122, 43-52.	2.6	19
77	Optimization of zeolite Y synthesis using industrial reagents by seeding technique. Studies in Surface Science and Catalysis, 2008, , 237-240.	1.5	1
78	Rheological Influence of Synthetic Zeolite on Cement Pastes. AIP Conference Proceedings, 2008, , .	0.4	2
79	Transformation of MCM-22(P) into ITQ-2: The role of framework aluminium. Microporous and Mesoporous Materials, 2007, 106, 107-114.	4.4	50
80	Zeolite LTA deposition on silicon wafer. Journal of Porous Materials, 2007, 14, 325-329.	2.6	8
81	The strength effects of synthetic zeolites on properties of high performance concrete. WIT Transactions on the Built Environment, 2006, , .	0.0	3
82	Direct synthesis of zeolites self-bonded pellets for biocatalyst immobilization. Studies in Surface Science and Catalysis, 2005, 158, 383-390.	1.5	2
83	In situ Synthesis of FAU-Type Zeolite Layer on Cordierite Support. Topics in Catalysis, 2004, 30/31, 369-373.	2.8	5
84	Synthesis of MCM-41 materials in the presence of cetylpyridinium surfactant. Studies in Surface Science and Catalysis, 2004, 154, 424-431.	1.5	5