

Raffaele Cioffi

List of Publications by Year in descending order

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113
papers

4,745
citations

71061

41
h-index

102432

66
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113
all docs

113
docs citations

113
times ranked

3825
citing authors

#	ARTICLE	IF	CITATIONS
1	An in-depth multi-technique characterization of rare earth carbonates $\text{RE}_2(\text{CO}_3)_3 \cdot 2\text{H}_2\text{O}$ owning tengerite-type structure. <i>Journal of Rare Earths</i> , 2022, 40, 1281-1290.	2.5	8
2	Assessment of innovative fiber-reinforced alkali-activated concrete. , 2022, , 523-539.		2
3	Opportunities and future challenges of geopolymer mortars for sustainable development. , 2022, , 661-686.		2
4	On the properties of sustainable concrete containing mineral admixtures. , 2022, , 475-488.		0
5	The Improvement of Durability of Reinforced Concretes for Sustainable Structures: A Review on Different Approaches. <i>Materials</i> , 2022, 15, 2728.	1.3	15
6	Multi-criteria analysis for Life Cycle Assessment and Life Cycle Costing of lightweight artificial aggregates from industrial waste by double-step cold bonding palletization. <i>Journal of Cleaner Production</i> , 2022, 351, 131395.	4.6	28
7	Cold-bonding process for treatment and reuse of waste materials: Technical designs and applications of pelletized products. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2197-2231.	6.6	36
8	Strategies for the valorization of soil waste by geopolymer production: An overview. <i>Journal of Cleaner Production</i> , 2021, 288, 125646.	4.6	31
9	Innovative Materials in Italy for Eco-Friendly and Sustainable Buildings. <i>Materials</i> , 2021, 14, 2048.	1.3	22
10	Eco-efficient industrial waste recycling for the manufacturing of fibre reinforced innovative geopolymer mortars: Integrated waste management and green product development through LCA. <i>Journal of Cleaner Production</i> , 2021, 312, 127777.	4.6	54
11	Fibre-Reinforced Geopolymer Concretes for Sensible Heat Thermal Energy Storage: Simulations and Environmental Impact. <i>Materials</i> , 2021, 14, 414.	1.3	12
12	Life-Cycle Impact of Concrete With Recycled Materials. , 2020, , 414-421.		1
13	Geopolymer-based hybrid foams: Lightweight materials from a sustainable production process. <i>Journal of Cleaner Production</i> , 2020, 250, 119588.	4.6	48
14	Chemical, physical and radiological evaluation of raw materials and geopolymers for building applications. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 325, 435-445.	0.7	12
15	LCA of concrete with construction and demolition waste. , 2020, , 501-513.		6
16	Hybrid Fly Ash-Based Geopolymeric Foams: Microstructural, Thermal and Mechanical Properties. <i>Materials</i> , 2020, 13, 2919.	1.3	18
17	Entropy-Stabilized Oxides owning Fluorite Structure obtained by Hydrothermal Treatment. <i>Materials</i> , 2020, 13, 558.	1.3	52
18	Use of Unbound Materials for Sustainable Road Infrastructures. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3465.	1.3	18

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19	Fiber Bragg Grating Sensors for Real Time Monitoring of Early Age Curing and Shrinkage of Different Metakaolin-Based Inorganic Binders. <i>IEEE Sensors Journal</i> , 2019, 19, 6173-6180.	2.4	8
20	Pre-treatments of MSWI fly-ashes: a comprehensive review to determine optimal conditions for their reuse and/or environmentally sustainable disposal. <i>Reviews in Environmental Science and Biotechnology</i> , 2019, 18, 453-471.	3.9	77
21	New Insights in the Hydrothermal Synthesis of Rare-Earth Carbonates. <i>Materials</i> , 2019, 12, 2062.	1.3	9
22	Hybrid Geopolymers from Fly Ash and Polysiloxanes. <i>Molecules</i> , 2019, 24, 3510.	1.7	19
23	Chromium-based MIL-101 metal organic framework as a fully regenerable D4 adsorbent for biogas purification. <i>Renewable Energy</i> , 2019, 138, 230-235.	4.3	18
24	A Case Study for the Deactivation and Regeneration of a V2O5-WO3/TiO2 Catalyst in a Tail-End SCR Unit of a Municipal Waste Incineration Plant. <i>Catalysts</i> , 2019, 9, 464.	1.6	15
25	Sustainable management of water potabilization sludge by means of geopolymers production. <i>Journal of Cleaner Production</i> , 2019, 229, 1-9.	4.6	37
26	Reuse of mining waste as aggregates in fly ash-based geopolymers. <i>Journal of Cleaner Production</i> , 2019, 220, 65-73.	4.6	81
27	Hybrid Geopolymeric Foams for the Removal of Metallic Ions from Aqueous Waste Solutions. <i>Materials</i> , 2019, 12, 4091.	1.3	22
28	Use of a Metal Organic Framework for the Adsorptive Removal of Gaseous HCl: A New Approach for a Challenging Task. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14271-14275.	4.0	18
29	Life cycle assessment of recycled concretes: A case study in southern Italy. <i>Science of the Total Environment</i> , 2018, 615, 1506-1517.	3.9	85
30	Mechanical and thermal properties of lightweight geopolymer composites. <i>Cement and Concrete Composites</i> , 2018, 86, 266-272.	4.6	140
31	Binders alternative to Portland cement and waste management for sustainable constructionâ€”part 1. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 186-202.	0.7	57
32	Characterization of Early Age Curing and Shrinkage of Metakaolin-Based Inorganic Binders with Different Rheological Behavior by Fiber Bragg Grating Sensors. <i>Materials</i> , 2018, 11, 10.	1.3	27
33	Binders alternative to Portland cement and waste management for sustainable construction â€” Part 2. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2018, 16, 207-221.	0.7	45
34	COMPARATIVE ANALYSIS ON MONOLITHIC DENOX CATALYSTS. <i>WIT Transactions on Ecology and the Environment</i> , 2018, , .	0.0	0
35	Fabrication and characterization of graphite-cement composites for microbial fuel cells applications. <i>Materials Research Bulletin</i> , 2017, 88, 188-199.	2.7	38
36	Gadolinium-doped ceria nanopowders synthesized by urea-based homogeneous co-precipitation (UBHP). <i>Materials Chemistry and Physics</i> , 2017, 187, 149-155.	2.0	35

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37	Synergistic recycling of calcined clayey sediments and water potabilization sludge as geopolymer precursors: Upscaling from binders to precast paving cement-free bricks. <i>Construction and Building Materials</i> , 2017, 133, 14-26.	3.2	68
38	Lightweight geopolymer-based hybrid materials. <i>Composites Part B: Engineering</i> , 2017, 128, 225-237.	5.9	68
39	Geopolymerization Ability of Natural and Secondary Raw Materials by Solubility Test in Alkaline Media. <i>Environments - MDPI</i> , 2017, 4, 56.	1.5	10
40	Amino-Functionalized, Chromium-Based Metal Organic Framework as a Potential High Performance Adsorbent for Hydrogen Chloride. <i>Advanced Science Letters</i> , 2017, 23, 6010-6011.	0.2	1
41	Effect of the mineralizer solution in the hydrothermal synthesis of gadolinium-doped (10% mol Gd) ceria nanopowders. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016, 14, 0-0.	0.7	14
42	Electrical and Microstructural Characterization of Ceramic Gadolinium-Doped Ceria Electrolytes for ITSOFCs by Sol-Gel Route. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016, 14, 35-41.	0.7	17
43	Innovative Fly Ash Geopolymer-Epoxy Composites: Preparation, Microstructure and Mechanical Properties. <i>Materials</i> , 2016, 9, 461.	1.3	59
44	TiO ₂ -Based Photocatalytic Geopolymers for Nitric Oxide Degradation. <i>Materials</i> , 2016, 9, 513.	1.3	59
45	Influence of Lithium on the Sintering Behavior and Electrical Properties of Ce _{0.8} Gd _{0.2} O _{1.9} for Intermediate Temperature Solid Oxide Fuel Cells. <i>Energy Technology</i> , 2016, 4, 409-416.	1.8	28
46	An environmental evaluation: A comparison between geopolymer and OPC concrete paving blocks manufacturing process in Italy. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 1699-1708.	1.3	32
47	A system approach in energy evaluation of different renewable energies sources integration in ammonia production plants. <i>Renewable Energy</i> , 2016, 99, 472-482.	4.3	113
48	Recycled polyolefins waste as aggregates for lightweight concrete. <i>Composites Part B: Engineering</i> , 2016, 106, 234-241.	5.9	114
49	Eco-sustainable Geopolymer Concrete Blocks Production Process. <i>Agriculture and Agricultural Science Procedia</i> , 2016, 8, 408-418.	0.6	43
50	Clay sediment geopolymerization by means of alkali metal aluminate activation. <i>RSC Advances</i> , 2015, 5, 107662-107669.	1.7	17
51	Fiber Bragg grating sensors as a tool to evaluate the influence of filler on shrinkage of geopolymer matrices. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
52	Thermally treated clay sediments as geopolymer source material. <i>Applied Clay Science</i> , 2015, 107, 195-204.	2.6	134
53	Preparation, structure and properties of hybrid materials based on geopolymers and polysiloxanes. <i>Materials and Design</i> , 2015, 87, 82-94.	3.3	63
54	Recycling of MSWI fly ash by means of cementitious double step cold bonding pelletization: Technological assessment for the production of lightweight artificial aggregates. <i>Journal of Hazardous Materials</i> , 2015, 299, 181-191.	6.5	187

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55	Low temperature alkaline activation of weathered fly ash: Influence of mineral admixtures on early age performance. <i>Construction and Building Materials</i> , 2015, 86, 169-177.	3.2	69
56	Measurement of temperature and early age shrinkage of alkali activated metakaolin using fiber Bragg grating sensors. , 2014, , .		2
57	Finite Element Method Modeling of Sensible Heat Thermal Energy Storage with Innovative Concretes and Comparative Analysis with Literature Benchmarks. <i>Energies</i> , 2014, 7, 5291-5316.	1.6	25
58	Recycling of Clay Sediments for Geopolymer Binder Production. A New Perspective for Reservoir Management in the Framework of Italian Legislation: The Occhito Reservoir Case Study. <i>Materials</i> , 2014, 7, 5603-5616.	1.3	65
59	Diffuse Reflectance Infrared Fourier Transform Spectroscopy for the Determination of Asbestos Species in Bulk Building Materials. <i>Materials</i> , 2014, 7, 457-470.	1.3	31
60	Novel hybrid organic-geopolymer materials. <i>Applied Clay Science</i> , 2013, 73, 42-50.	2.6	112
61	Preparation and Characterization of New Geopolymer-Epoxy Resin Hybrid Mortars. <i>Materials</i> , 2013, 6, 2989-3006.	1.3	80
62	Recycling of Pre-Washed Municipal Solid Waste Incinerator Fly Ash in the Manufacturing of Low Temperature Setting Geopolymer Materials. <i>Materials</i> , 2013, 6, 3420-3437.	1.3	97
63	Use of geopolymers for composite external reinforcement of RC members. <i>Composites Part B: Engineering</i> , 2013, 45, 1667-1676.	5.9	115
64	Application-Oriented Chemical Optimization of a Metakaolin Based Geopolymer. <i>Materials</i> , 2013, 6, 1920-1939.	1.3	92
65	Use of Cement Kiln Dust, Blast Furnace Slag and Marble Sludge in the Manufacture of Sustainable Artificial Aggregates by Means of Cold Bonding Pelletization. <i>Materials</i> , 2013, 6, 3139-3159.	1.3	88
66	Synthesis and Characterization of Novel Epoxy Geopolymer Hybrid Composites. <i>Materials</i> , 2013, 6, 3943-3962.	1.3	53
67	Coal Combustion Wastes Reuse in Low Energy Artificial Aggregates Manufacturing. <i>Materials</i> , 2013, 6, 5000-5015.	1.3	66
68	Synthesis and Characterizations of Melamine-Based Epoxy Resins. <i>International Journal of Molecular Sciences</i> , 2013, 14, 18200-18214.	1.8	50
69	Effect of Mechanochemical Processing on Adsorptive Properties of Blast Furnace Slag. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 1446-1453.	0.7	9
70	SHIELDING EFFECTIVENESS TESTS OF LOW-COST CIVIL ENGINEERING MATERIALS IN A REVERBERATING CHAMBER. <i>Progress in Electromagnetics Research B</i> , 2013, 54, 227-243.	0.7	19
71	Soluble salt removal from MSWI fly ash and its stabilization for safer disposal and recovery as road basement material. <i>Waste Management</i> , 2012, 32, 1179-1185.	3.7	149
72	Mechanical Performances of Weathered Coal Fly Ash Based Geopolymer Bricks. <i>Procedia Engineering</i> , 2011, 21, 745-752.	1.2	86

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73	A Mechanochemical Approach to Porous Silicon Nanoparticles Fabrication. <i>Materials</i> , 2011, 4, 1023-1033.	1.3	80
74	Manufacture of artificial aggregate using MSWI bottom ash. <i>Waste Management</i> , 2011, 31, 281-288.	3.7	133
75	Treatment and recycling of asbestos-cement containing waste. <i>Journal of Hazardous Materials</i> , 2011, 195, 391-397.	6.5	79
76	Adsorption of chlorophenol, chloroaniline and methylene blue on fuel oil fly ash. <i>Journal of Hazardous Materials</i> , 2008, 157, 599-604.	6.5	46
77	Coal fly ash as raw material for the manufacture of geopolymer-based products. <i>Waste Management</i> , 2008, 28, 416-423.	3.7	266
78	TG, FT-IR and NMR characterization of n-C16H34 contaminated alumina and silica after mechanochemical treatment. <i>Chemosphere</i> , 2008, 70, 1068-1076.	4.2	8
79	Simultaneous adsorption of chlorophenol and heavy metal ions on organophilic bentonite. <i>Applied Clay Science</i> , 2006, 31, 126-133.	2.6	84
80	Potential application of coal-fuel oil ash for the manufacture of building materials. <i>Journal of Hazardous Materials</i> , 2005, 124, 101-106.	6.5	3
81	Characterization of Raw and Stabilized Waste in Relation to Toxic Metals Mobility in Realistic Landfilling Scenarios. <i>Annali Di Chimica</i> , 2005, 95, 823-832.	0.6	0
82	Optimization of geopolymer synthesis by calcination and polycondensation of a kaolinitic residue. <i>Resources, Conservation and Recycling</i> , 2003, 40, 27-38.	5.3	163
83	Heavy metal stabilization by means of innovative alumino-silicate matrix. <i>Environmental Technology (United Kingdom)</i> , 2003, 24, 641-651.	1.2	0
84	Cement Stabilization of Tannery Sludge Using Quaternary Ammonium Salt Exchanged Bentonite as Pre-Solidification Adsorbent. <i>Environmental Technology (United Kingdom)</i> , 2002, 23, 1051-1062.	1.2	16
85	Environmental and technological effectiveness of a process for the stabilization of a galvanic sludge. <i>Journal of Hazardous Materials</i> , 2002, 89, 165-175.	6.5	33
86	Adsorption of the Organic Fraction of a Tannery Sludge by Means of Organophilic Bentonite. <i>Environmental Technology (United Kingdom)</i> , 2001, 22, 83-89.	1.2	13
87	Stabilization of chloro-organics using organophilic bentonite in a cement-blast furnace slag matrix. <i>Waste Management</i> , 2001, 21, 651-660.	3.7	27
88	Reuse of secondary lead smelter slag in the manufacture of concrete blocks. <i>Waste Management Series</i> , 2000, 1, 741-749.	0.0	4
89	Effect of an Acetic Acid/Sodium Acetate Buffered Leachant on Ettringite-Based Stabilizing Matrices. <i>Environmental Technology (United Kingdom)</i> , 2000, 21, 815-818.	1.2	2
90	Matrix stability and leaching behaviour in ettringite-based stabilization systems doped with heavy metals. <i>Waste Management</i> , 1998, 17, 535-540.	3.7	52

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91	Feasibility of Manufacturing Building Materials by Recycling a Waste from Ion Exchange Process. Environmental Technology (United Kingdom), 1998, 19, 1145-1150.	1.2	11
92	Energy-saving cements obtained from chemical gypsum and other industrial wastes. Waste Management, 1996, 16, 231-235.	3.7	57
93	Potential application of ettringite generating systems for hazardous waste stabilization. Journal of Hazardous Materials, 1996, 51, 241-252.	6.5	104
94	Evaluation of Mechanical and Leaching Properties of Cement-Based Solidified Materials Encapsulating Cd-Exchanged Natural Zeolites. Environmental Technology (United Kingdom), 1996, 17, 1215-1224.	1.2	33
95	Evaluation of Solid Waste Stabilization Processes by Means of Leaching Tests. Environmental Technology (United Kingdom), 1996, 17, 309-315.	1.2	11
96	A discussion of the paper "carbonation and porosity of mortar specimens with pozzolanic and hydraulic cement admixtures" by Ch. Malami, V. Kaloidas, G. Batis and N. Kouloumbi. Cement and Concrete Research, 1995, 25, 1803-1804.	4.6	0
97	Disposal of Lead-Containing Zeolite Sludges in Cement Matrix. Environmental Technology (United Kingdom), 1996, 17, 107-116.	1.2	34
98	Glass-ceramics from fly ash with added Li ₂ O. Journal of the European Ceramic Society, 1994, 13, 143-148.	2.8	36
99	Glass-ceramic from fly ash with added MgO and TiO ₂ . Journal of the European Ceramic Society, 1994, 14, 517-521.	2.8	12
100	Cementitious mixtures containing industrial process wastes suitable for the manufacture of preformed building elements. Journal of Chemical Technology and Biotechnology, 1994, 59, 243-247.	1.6	13
101	Development of Cementitious Products Using Industrial Process Wastes as Sources of Reactive Sulfate and Alumina. Studies in Environmental Science, 1994, 60, 579-588.	0.0	1
102	DTA study of the hydration of systems of interest in the field of building materials manufacture. Journal of Thermal Analysis, 1992, 38, 761-770.	0.7	11
103	Relationship between gypsum content, porosity and strength in cement. I. Effect of SO ₃ on the physical microstructure of Portland cement mortars. Cement and Concrete Research, 1991, 21, 120-126.	4.6	19
104	The influence of heavy metals on the hydration of binders of interest for chemical gypsum stabilisation. Thermochimica Acta, 1990, 162, 107-116.	1.2	2
105	On permeation effects of aqueous solutions through non-mature pastes of portland-pozzolana cement. Cement and Concrete Research, 1989, 19, 189-193.	4.6	1
106	DTA study of the influence of lime content of low-calcium fly ashes on the pozzolanic reaction. Thermochimica Acta, 1989, 145, 87-92.	1.2	2
107	Influence of chemical and physical properties of Italian fly ashes on reactivity towards lime, phosphogypsum and water. Cement and Concrete Research, 1988, 18, 91-102.	4.6	28
108	Quantitative determination of calcium hydroxide in the presence of calcium silicate hydrates. Comparison between chemical extraction and thermal analysis. Journal of Materials Science Letters, 1985, 4, 475-478.	0.5	5

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109	Characterization of Geopolymer Materials Containing MSWI Fly Ash and Coal Fly Ash. <i>Advances in Science and Technology</i> , 0, , .	0.2	16
110	Environmental Friendly Lightweight Artificial Aggregates through Industrial Waste Stabilization. <i>Key Engineering Materials</i> , 0, 913, 143-147.	0.4	3
111	Environmental Assessment of Concretes Containing Construction and Demolition Waste. <i>Key Engineering Materials</i> , 0, 913, 131-135.	0.4	1
112	Eco-Friendly Concretes with Recycled Plastic Aggregates. <i>Key Engineering Materials</i> , 0, 913, 137-142.	0.4	0
113	Climate Change Impact Assessment of Geopolymer Mortars. <i>Key Engineering Materials</i> , 0, 919, 210-217.	0.4	1