

Claudio Ferone

List of Publications by Year in descending order

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89
papers

3,263
citations

109264

35
h-index

168321

53
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91
all docs

91
docs citations

91
times ranked

2513
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	Alkali-Activated Red Mud and Construction and Demolition Waste-Based Components: Characterization and Environmental Assessment. <i>Materials</i> , 2022, 15, 1617.	1.3	17
3	Zeolite-based monoliths for water softening by ion exchange/precipitation process. <i>Scientific Reports</i> , 2022, 12, 3686.	1.6	12
4	The Improvement of Durability of Reinforced Concretes for Sustainable Structures: A Review on Different Approaches. <i>Materials</i> , 2022, 15, 2728.	1.3	15
5	A simple and effective predictor to design novel fluorite-structured High Entropy Oxides (HEOs). <i>Acta Materialia</i> , 2021, 202, 181-189.	3.8	66
6	Alkali activation of different type of ash as a production of combustion process. <i>Nuclear Technology and Radiation Protection</i> , 2021, 36, 66-73.	0.3	3
7	Strategies for the valorization of soil waste by geopolymer production: An overview. <i>Journal of Cleaner Production</i> , 2021, 288, 125646.	4.6	31
8	Fibre-Reinforced Geopolymer Concretes for Sensible Heat Thermal Energy Storage: Simulations and Environmental Impact. <i>Materials</i> , 2021, 14, 414.	1.3	12
9	Red Mud-Blast Furnace Slag-Based Alkali-Activated Materials. <i>Sustainability</i> , 2021, 13, 11298.	1.6	20
10	Geopolymer-based hybrid foams: Lightweight materials from a sustainable production process. <i>Journal of Cleaner Production</i> , 2020, 250, 119588.	4.6	48
11	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
12	Hybrid Fly Ash-Based Geopolymeric Foams: Microstructural, Thermal and Mechanical Properties. <i>Materials</i> , 2020, 13, 2919.	1.3	18
13	Entropy-Stabilized Oxides owning Fluorite Structure obtained by Hydrothermal Treatment. <i>Materials</i> , 2020, 13, 558.	1.3	52
14	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
15	New Insights in the Hydrothermal Synthesis of Rare-Earth Carbonates. <i>Materials</i> , 2019, 12, 2062.	1.3	9
16	Hybrid Geopolymers from Fly Ash and Polysiloxanes. <i>Molecules</i> , 2019, 24, 3510.	1.7	19
17	A Case Study for the Deactivation and Regeneration of a $\text{V}_2\text{O}_5\text{-WO}_3/\text{TiO}_2$ Catalyst in a Tail-End SCR Unit of a Municipal Waste Incineration Plant. <i>Catalysts</i> , 2019, 9, 464.	1.6	15
18	Self-supporting zeolites by Geopolymer Gel Conversion (GGC). <i>Microporous and Mesoporous Materials</i> , 2019, 286, 125-132.	2.2	23

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19	Sustainable management of water potabilization sludge by means of geopolymers production. Journal of Cleaner Production, 2019, 229, 1-9.	4.6	37
20	Reuse of mining waste as aggregates in fly ash-based geopolymers. Journal of Cleaner Production, 2019, 220, 65-73.	4.6	81
21	Hybrid Geopolymeric Foams for the Removal of Metallic Ions from Aqueous Waste Solutions. Materials, 2019, 12, 4091.	1.3	22
22	Mechanical and thermal properties of lightweight geopolymer composites. Cement and Concrete Composites, 2018, 86, 266-272.	4.6	140
23	Binders alternative to Portland cement and waste management for sustainable constructionâ€”part 1. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 186-202.	0.7	57
24	Characterization of Early Age Curing and Shrinkage of Metakaolin-Based Inorganic Binders with Different Rheological Behavior by Fiber Bragg Grating Sensors. Materials, 2018, 11, 10.	1.3	27
25	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.	0.7	45
26	COMPARATIVE ANALYSIS ON MONOLITHIC DENOX CATALYSTS. WIT Transactions on Ecology and the Environment, 2018, , .	0.0	0
27	Fabrication and characterization of graphite-cement composites for microbial fuel cells applications. Materials Research Bulletin, 2017, 88, 188-199.	2.7	38
28	Gadolinium-doped ceria nanopowders synthesized by urea-based homogeneous co-precipitation (UBHP). Materials Chemistry and Physics, 2017, 187, 149-155.	2.0	35
29	Synergistic recycling of calcined clayey sediments and water potabilization sludge as geopolymer precursors: Upscaling from binders to precast paving cement-free bricks. Construction and Building Materials, 2017, 133, 14-26.	3.2	68
30	Thermal cycling stability of fly ash based geopolymer mortars. Composites Part B: Engineering, 2017, 129, 11-17.	5.9	82
31	Lightweight geopolymer-based hybrid materials. Composites Part B: Engineering, 2017, 128, 225-237.	5.9	68
32	Geopolymerization Ability of Natural and Secondary Raw Materials by Solubility Test in Alkaline Media. Environments - MDPI, 2017, 4, 56.	1.5	10
33	Mechanical Behaviour of Soil Improved by Alkali Activated Binders. Environments - MDPI, 2017, 4, 80.	1.5	16
34	Effect of the mineralizer solution in the hydrothermal synthesis of gadolinium-doped (10% mol Gd) ceria nanopowders. Journal of Applied Biomaterials and Functional Materials, 2016, 14, 0-0.	0.7	14
35	Electrical and Microstructural Characterization of Ceramic Gadolinium-Doped Ceria Electrolytes for ITSOFCs by Sol-Gel Route. Journal of Applied Biomaterials and Functional Materials, 2016, 14, 35-41.	0.7	17
36	Innovative Fly Ash Geopolymer-Epoxy Composites: Preparation, Microstructure and Mechanical Properties. Materials, 2016, 9, 461.	1.3	59

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37	TiO ₂ -Based Photocatalytic Geopolymers for Nitric Oxide Degradation. <i>Materials</i> , 2016, 9, 513.	1.3	59
38	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
39	Conventional and field-assisted sintering of nanosized Gd-doped ceria synthesized by co-precipitation. <i>Ceramics International</i> , 2016, 42, 11766-11771.	2.3	58
40	Eco-sustainable Geopolymer Concrete Blocks Production Process. <i>Agriculture and Agricultural Science Procedia</i> , 2016, 8, 408-418.	0.6	43
41	Tensile behaviour of geopolymer-based materials under medium and high strain rates. <i>EPJ Web of Conferences</i> , 2015, 94, 01034.	0.1	4
42	Clay sediment geopolymerization by means of alkali metal aluminate activation. <i>RSC Advances</i> , 2015, 5, 107662-107669.	1.7	17
43	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
44	Phosphorus stably bonded to a silica gel matrix through niobium bridges. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15986-15995.	5.2	24
45	Fiber Bragg grating sensors: a reliable method for the measurement of early age properties of traditional and innovative cements. , 2015, , .		3
46	Thermally treated clay sediments as geopolymer source material. <i>Applied Clay Science</i> , 2015, 107, 195-204.	2.6	134
47	Preparation, structure and properties of hybrid materials based on geopolymers and polysiloxanes. <i>Materials and Design</i> , 2015, 87, 82-94.	3.3	63
48	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
49	Fire resistant melamine based organic-geopolymer hybrid composites. <i>Cement and Concrete Composites</i> , 2015, 59, 89-99.	4.6	85
50	Measurement of temperature and early age shrinkage of alkali activated metakaolin using fiber Bragg grating sensors. , 2014, , .		2
51	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
52	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
53	Synthesis of SiO ₂ and CaO rich calcium silicate systems via sol-gel process: Bioactivity, biocompatibility, and drug delivery tests. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3087-3092.	2.1	46
54	Rigid chain ribbon-like metallopolymers. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2412-2421.	2.5	5

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55	Novel hybrid organic-geopolymer materials. <i>Applied Clay Science</i> , 2013, 73, 42-50.	2.6	112
56	Preparation and Characterization of New Geopolymer-Epoxy Resin Hybrid Mortars. <i>Materials</i> , 2013, 6, 2989-3006.	1.3	80
57	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
58	Synthesis of highly regioregular poly[3-(4-alkoxyphenyl)-thiophene]s by oxidative catalysis using copper complexes. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4351-4360.	2.5	23
59	Use of geopolymers for composite external reinforcement of RC members. <i>Composites Part B: Engineering</i> , 2013, 45, 1667-1676.	5.9	115
60	Experimental and Numerical Analysis of Thermal and Hygrometric Characteristics of Building Structures Employing Recycled Plastic Aggregates and Geopolymer Concrete. <i>Energies</i> , 2013, 6, 6077-6101.	1.6	32
61	Application-Oriented Chemical Optimization of a Metakaolin Based Geopolymer. <i>Materials</i> , 2013, 6, 1920-1939.	1.3	92
62	Synthesis and Characterization of Novel Epoxy Geopolymer Hybrid Composites. <i>Materials</i> , 2013, 6, 3943-3962.	1.3	53
63	Coal Combustion Wastes Reuse in Low Energy Artificial Aggregates Manufacturing. <i>Materials</i> , 2013, 6, 5000-5015.	1.3	66
64	Synthesis and Characterizations of Melamine-Based Epoxy Resins. <i>International Journal of Molecular Sciences</i> , 2013, 14, 18200-18214.	1.8	50
65	Use of reservoir clay sediments as raw materials for geopolymer binders. <i>Advances in Applied Ceramics</i> , 2013, 112, 184-189.	0.6	65
66	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
67	{2-[2,2-Bis(4,4-dimethyl-4,5-dihydro-1,3-oxazol-2-yl- I^{N})propyl]pyridine}dichloridoiron(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m433-m434.	0.2	0
68	Mechanical Performances of Weathered Coal Fly Ash Based Geopolymer Bricks. <i>Procedia Engineering</i> , 2011, 21, 745-752.	1.2	86
69	Study of the thermal transformations of Co- and Fe-exchanged zeolites A and X by in situ XRD under reducing atmosphere. <i>Materials Research Bulletin</i> , 2010, 45, 744-750.	2.7	23
70	Monoclinic (Ba, Sr)-celsian by thermal treatment of (Ba, Sr)-exchanged zeolite A. <i>Microporous and Mesoporous Materials</i> , 2010, 134, 65-71.	2.2	32
71	Densification and crystallization of Ba-exchanged zeolite A powders. <i>Ceramics International</i> , 2008, 34, 543-549.	2.3	11
72	Monoclinic Sr-celsian by thermal treatment of Sr-exchanged zeolite A, LTA-type framework. <i>Solid State Ionics</i> , 2008, 179, 2358-2364.	1.3	15

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73	Effect of residual Na on the low temperature synthesis of monoclinic celsian from zeolite Ba-A. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 197-200.	1.5	2
74	Microwave assisted hydrothermal conversion of Ba-exchanged zeolite A into metastable paracelsian. <i>Microporous and Mesoporous Materials</i> , 2006, 96, 9-13.	2.2	6
75	Substitution clustering in a non-stoichiometric celsian synthesized by the thermal transformation of barium exchanged zeolite X. <i>Journal of Solid State Chemistry</i> , 2006, 179, 1957-1964.	1.4	14
76	Non Conventional Synthesis of Monoclinic Celsian from Ba-Exchanged Zeolite A: Study of the Effect of Residual Na and Forming Pressure. <i>Advances in Science and Technology</i> , 2006, 45, 963-968.	0.2	5
77	Thermally induced structural and microstructural evolution of barium exchanged zeolite A to celsian. <i>Studies in Surface Science and Catalysis</i> , 2005, , 249-260.	1.5	4
78	Role of Li in the low temperature synthesis of monoclinic celsian from (Ba, Li)-exchanged zeolite-A precursor. <i>Solid State Sciences</i> , 2005, 7, 1406-1414.	1.5	25
79	Data processing of cation exchange equilibria in zeolites: a modified approach. <i>Studies in Surface Science and Catalysis</i> , 2005, 155, 129-140.	1.5	11
80	A comparative study of the thermal transformations of Ba-exchanged zeolites A, X and LSX. <i>Journal of the European Ceramic Society</i> , 2004, 24, 2689-2697.	2.8	32
81	Thermal crystallization of ion-exchanged zeolite A. <i>Journal of the European Ceramic Society</i> , 2003, 23, 1705-1713.	2.8	8
82	²⁹ Si and ²⁷ Al NMR study of the thermal transformation of barium exchanged zeolite-A to celsian. <i>Journal of Materials Chemistry</i> , 2003, 13, 1681.	6.7	31
83	New Insight into the Thermal Transformation of Barium-Exchanged Zeolite A to Celsian. <i>Chemistry of Materials</i> , 2002, 14, 797-803.	3.2	33
84	FTIR study of the thermal transformation of barium-exchanged zeolite A to celsian. <i>Journal of Materials Chemistry</i> , 2002, 12, 3039-3045.	6.7	62
85	Crystallization of monoclinic zirconia from metastable phases. <i>Solid State Ionics</i> , 2000, 127, 223-230.	1.3	27
86	Thermal transformation of Ba-exchanged A and X zeolites into monoclinic celsian. <i>Solid State Ionics</i> , 2000, 127, 309-317.	1.3	52
87	Dilatometry of Na-, K-, Ca- and NH ₄ -clinoptilolite. <i>Thermochimica Acta</i> , 1999, 336, 105-110.	1.2	12
88	Ignition of ammonia on various zeolitic substrates. <i>Thermochimica Acta</i> , 1997, 303, 17-21.	1.2	10
89	Characterization of Geopolymer Materials Containing MSWI Fly Ash and Coal Fly Ash. <i>Advances in Science and Technology</i> , 0, , .	0.2	16