

# 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  
g-index

91  
all docs

91  
docs citations

91  
times ranked

2513  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical and thermal properties of lightweight geopolymer composites. <i>Cement and Concrete Composites</i> , 2018, 86, 266-272.	4.6	140
2	Thermally treated clay sediments as geopolymer source material. <i>Applied Clay Science</i> , 2015, 107, 195-204.	2.6	134
3	Use of geopolymers for composite external reinforcement of RC members. <i>Composites Part B: Engineering</i> , 2013, 45, 1667-1676.	5.9	115
4	Novel hybrid organic-geopolymer materials. <i>Applied Clay Science</i> , 2013, 73, 42-50.	2.6	112
5	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
6	Application-Oriented Chemical Optimization of a Metakaolin Based Geopolymer. <i>Materials</i> , 2013, 6, 1920-1939.	1.3	92
7	Mechanical Performances of Weathered Coal Fly Ash Based Geopolymer Bricks. <i>Procedia Engineering</i> , 2011, 21, 745-752.	1.2	86
8	Fire resistant melamine based organic-geopolymer hybrid composites. <i>Cement and Concrete Composites</i> , 2015, 59, 89-99.	4.6	85
9	Thermal cycling stability of fly ash based geopolymer mortars. <i>Composites Part B: Engineering</i> , 2017, 129, 11-17.	5.9	82
10	Reuse of mining waste as aggregates in fly ash-based geopolymers. <i>Journal of Cleaner Production</i> , 2019, 220, 65-73.	4.6	81
11	Preparation and Characterization of New Geopolymer-Epoxy Resin Hybrid Mortars. <i>Materials</i> , 2013, 6, 2989-3006.	1.3	80
12	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
13	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
14	Lightweight geopolymer-based hybrid materials. <i>Composites Part B: Engineering</i> , 2017, 128, 225-237.	5.9	68
15	Coal Combustion Wastes Reuse in Low Energy Artificial Aggregates Manufacturing. <i>Materials</i> , 2013, 6, 5000-5015.	1.3	66
16	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
17	Use of reservoir clay sediments as raw materials for geopolymer binders. <i>Advances in Applied Ceramics</i> , 2013, 112, 184-189.	0.6	65
18	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

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19	Preparation, structure and properties of hybrid materials based on geopolymers and polysiloxanes. <i>Materials and Design</i> , 2015, 87, 82-94.	3.3	63
20	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
21	Innovative Fly Ash Geopolymer-Epoxy Composites: Preparation, Microstructure and Mechanical Properties. <i>Materials</i> , 2016, 9, 461.	1.3	59
22	TiO <sub>2</sub> -Based Photocatalytic Geopolymers for Nitric Oxide Degradation. <i>Materials</i> , 2016, 9, 513.	1.3	59
23	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
24	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.	0.7	57
25	Synthesis and Characterization of Novel Epoxy Geopolymer Hybrid Composites. <i>Materials</i> , 2013, 6, 3943-3962.	1.3	53
26	Thermal transformation of Ba-exchanged A and X zeolites into monoclinic celsian. <i>Solid State Ionics</i> , 2000, 127, 309-317.	1.3	52
27	Entropy-Stabilized Oxides owning Fluorite Structure obtained by Hydrothermal Treatment. <i>Materials</i> , 2020, 13, 558.	1.3	52
28	Synthesis and Characterizations of Melamine-Based Epoxy Resins. <i>International Journal of Molecular Sciences</i> , 2013, 14, 18200-18214.	1.8	50
29	Geopolymer-based hybrid foams: Lightweight materials from a sustainable production process. <i>Journal of Cleaner Production</i> , 2020, 250, 119588.	4.6	48
30	Synthesis of SiO <sub>2</sub> 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
31	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.	0.7	45
32	Eco-sustainable Geopolymer Concrete Blocks Production Process. <i>Agriculture and Agricultural Science Procedia</i> , 2016, 8, 408-418.	0.6	43
33	Fabrication and characterization of graphite-cement composites for microbial fuel cells applications. <i>Materials Research Bulletin</i> , 2017, 88, 188-199.	2.7	38
34	Sustainable management of water potabilization sludge by means of geopolymers production. <i>Journal of Cleaner Production</i> , 2019, 229, 1-9.	4.6	37
35	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
36	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

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37	A comparative study of the thermal transformations of Ba-exchanged zeolites A, X and LSX. Journal of the European Ceramic Society, 2004, 24, 2689-2697.	2.8	32
38	Monoclinic (Ba, Sr)-celsian by thermal treatment of (Ba, Sr)-exchanged zeolite A. Microporous and Mesoporous Materials, 2010, 134, 65-71.	2.2	32
39	Experimental and Numerical Analysis of Thermal and Hygrometric Characteristics of Building Structures Employing Recycled Plastic Aggregates and Geopolymer Concrete. Energies, 2013, 6, 6077-6101.	1.6	32
40	<sup>29</sup> Si and <sup>27</sup> Al NMR study of the thermal transformation of barium exchanged zeolite-A to celsian. Journal of Materials Chemistry, 2003, 13, 1681.	6.7	31
41	Strategies for the valorization of soil waste by geopolymer production: An overview. Journal of Cleaner Production, 2021, 288, 125646.	4.6	31
42	Influence of Lithium on the Sintering Behavior and Electrical Properties of Ce <sub>0.8</sub> Gd <sub>0.2</sub> O <sub>1.9</sub> for Intermediate-Temperature Solid Oxide Fuel Cells. Energy Technology, 2016, 4, 409-416.	1.8	28
43	Crystallization of monoclinic zirconia from metastable phases. Solid State Ionics, 2000, 127, 223-230.	1.3	27
44	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
45	Role of Li in the low temperature synthesis of monoclinic celsian from (Ba, Li)-exchanged zeolite-A precursor. Solid State Sciences, 2005, 7, 1406-1414.	1.5	25
46	Finite Element Method Modeling of Sensible Heat Thermal Energy Storage with Innovative Concretes and Comparative Analysis with Literature Benchmarks. Energies, 2014, 7, 5291-5316.	1.6	25
47	Phosphorus stably bonded to a silica gel matrix through niobium bridges. Journal of Materials Chemistry A, 2015, 3, 15986-15995.	5.2	24
48	Study of the thermal transformations of Co- and Fe-exchanged zeolites A and X by <i>in situ</i> -XRD under reducing atmosphere. Materials Research Bulletin, 2010, 45, 744-750.	2.7	23
49	Synthesis of highly regioregular poly[3-(4-alkoxyphenyl)-thiophene]s by oxidative catalysis using copper complexes. Journal of Polymer Science Part A, 2013, 51, 4351-4360.	2.5	23
50	Self-supporting zeolites by Geopolymer Gel Conversion (GGC). Microporous and Mesoporous Materials, 2019, 286, 125-132.	2.2	23
51	Hybrid Geopolymeric Foams for the Removal of Metallic Ions from Aqueous Waste Solutions. Materials, 2019, 12, 4091.	1.3	22
52	Red Mud-Blast Furnace Slag-Based Alkali-Activated Materials. Sustainability, 2021, 13, 11298.	1.6	20
53	SHIELDING EFFECTIVENESS TESTS OF LOW-COST CIVIL ENGINEERING MATERIALS IN A REVERBERATING CHAMBER. Progress in Electromagnetics Research B, 2013, 54, 227-243.	0.7	19
54	Hybrid Geopolymers from Fly Ash and Polysiloxanes. Molecules, 2019, 24, 3510.	1.7	19

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55	Hybrid Fly Ash-Based Geopolymeric Foams: Microstructural, Thermal and Mechanical Properties. <i>Materials</i> , 2020, 13, 2919.	1.3	18
56	Clay sediment geopolymerization by means of alkali metal aluminate activation. <i>RSC Advances</i> , 2015, 5, 107662-107669.	1.7	17
57	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
58	Alkali-Activated Red Mud and Construction and Demolition Waste-Based Components: Characterization and Environmental Assessment. <i>Materials</i> , 2022, 15, 1617.	1.3	17
59	Characterization of Geopolymer Materials Containing MSWI Fly Ash and Coal Fly Ash. <i>Advances in Science and Technology</i> , 0, , .	0.2	16
60	Mechanical Behaviour of Soil Improved by Alkali Activated Binders. <i>Environments - MDPI</i> , 2017, 4, 80.	1.5	16
61	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
62	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
63	The Improvement of Durability of Reinforced Concretes for Sustainable Structures: A Review on Different Approaches. <i>Materials</i> , 2022, 15, 2728.	1.3	15
64	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
65	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
66	Dilatometry of Na-, K-, Ca- and NH4-clinoptilolite. <i>Thermochimica Acta</i> , 1999, 336, 105-110.	1.2	12
67	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
68	Fibre-Reinforced Geopolymer Concretes for Sensible Heat Thermal Energy Storage: Simulations and Environmental Impact. <i>Materials</i> , 2021, 14, 414.	1.3	12
69	Zeolite-based monoliths for water softening by ion exchange/precipitation process. <i>Scientific Reports</i> , 2022, 12, 3686.	1.6	12
70	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
71	Densification and crystallization of Ba-exchanged zeolite A powders. <i>Ceramics International</i> , 2008, 34, 543-549.	2.3	11
72	Ignition of ammonia on various zeolitic substrates. <i>Thermochimica Acta</i> , 1997, 303, 17-21.	1.2	10

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73	Geopolymerization Ability of Natural and Secondary Raw Materials by Solubility Test in Alkaline Media. Environments - MDPI, 2017, 4, 56.	1.5	10
74	New Insights in the Hydrothermal Synthesis of Rare-Earth Carbonates. Materials, 2019, 12, 2062.	1.3	9
75	Thermal crystallization of ion-exchanged zeolite A. Journal of the European Ceramic Society, 2003, 23, 1705-1713.	2.8	8
76	Fiber Bragg Grating Sensors for Real Time Monitoring of Early Age Curing and Shrinkage of Different Metakaolin-Based Inorganic Binders. IEEE Sensors Journal, 2019, 19, 6173-6180.	2.4	8
77	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. Journal of Rare Earths, 2022, 40, 1281-1290.	2.5	8
78	Microwave assisted hydrothermal conversion of Ba-exchanged zeolite A into metastable paracelsian. Microporous and Mesoporous Materials, 2006, 96, 9-13.	2.2	6
79	Non Conventional Synthesis of Monoclinic Celsian from Ba-Exchanged Zeolite A: Study of the Effect of Residual Na and Forming Pressure. Advances in Science and Technology, 2006, 45, 963-968.	0.2	5
80	Rigid chain ribbon-like metallopolymer. Journal of Polymer Science Part A, 2014, 52, 2412-2421.	2.5	5
81	Thermally induced structural and microstructural evolution of barium exchanged zeolite A to celsian. Studies in Surface Science and Catalysis, 2005, , 249-260.	1.5	4
82	Tensile behaviour of geopolymer-based materials under medium and high strain rates. EPJ Web of Conferences, 2015, 94, 01034.	0.1	4
83	Fiber Bragg grating sensors as a tool to evaluate the influence of filler on shrinkage of geopolymer matrices. Proceedings of SPIE, 2015, , .	0.8	4
84	Fiber Bragg grating sensors: a reliable method for the measurement of early age properties of traditional and innovative cements. , 2015, , .		3
85	Alkali activation of different type of ash as a production of combustion process. Nuclear Technology and Radiation Protection, 2021, 36, 66-73.	0.3	3
86	Effect of residual Na on the low temperature synthesis of monoclinic celsian from zeolite Ba-A. Studies in Surface Science and Catalysis, 2008, 174, 197-200.	1.5	2
87	Measurement of temperature and early age shrinkage of alkali activated metakaolin using fiber Bragg grating sensors. , 2014, , .		2
88	{2-[2,2-Bis(4,4-dimethyl-4,5-dihydro-1,3-oxazol-2-yl- $\hat{\text{N}}$ )propyl]pyridine}dichloridoiron(II). Acta Crystallographica Section E: Structure Reports Online, 2013, 69, m433-m434.	0.2	0
89	COMPARATIVE ANALYSIS ON MONOLITHIC DENOX CATALYSTS. WIT Transactions on Ecology and the Environment, 2018, , .	0.0	0