

Luisa Barbieri

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

129
papers

3,288
citations

33
h-index

52
g-index

136
ext. papers

3,630
ext. citations

4.4
avg, IF

5.13
L-index

#	Paper	IF	Citations
129	A New System of Sustainable Silico-Aluminous and Silicate Materials for Cultivation Purpose within Sustainable Buildings: Chemical-Physical, Antibacterial and Cytotoxicity Properties. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 434	2.6	3
128	Weathered bottom ash from municipal solid waste incineration: Alkaline activation for sustainable binders. <i>Construction and Building Materials</i> , 2022 , 327, 126983	6.7	1
127	Durability of biopolymeric composites formulated with fillers from a by-product of coffee roasting. <i>Polymer Composites</i> , 2022 , 43, 1485-1493	3	0
126	Recovery of Cork Manufacturing Waste within Mortar and Polyurethane: Feasibility of Use and Physical, Mechanical, Thermal Insulating Properties of the Final Green Composite Construction Materials. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3844	2.6	1
125	Suitability of Porous Inorganic Materials from Industrial Residues and Bioproducts for Use in Horticulture: A Multidisciplinary Approach. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5437	2.6	2
124	Recycling of Waste Corundum Abrasive Powder in Mk-Based Geopolymers. <i>Polymers</i> , 2022 , 14, 2173	4.5	3
123	Pyrolysis Process for the Recycling of Cork Dust Waste from the Processing of Cork Agglomerate Caps in Lightweight Materials. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5663	2.6	
122	PRELIMINARY STUDY ON VALORIZATION OF SCRAPS FROM THE EXTRACTION OF VOLCANIC MINERALS. <i>Environmental Engineering and Management Journal</i> , 2021 , 20, 1599-1610	0.6	1
121	Synthesis and Characterization of Biochar-Based Geopolymer Materials. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10945	2.6	5
120	Eco-Compatible Construction Materials Containing Ceramic Sludge and Packaging Glass Cullet. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3545	2.6	1
119	Sintering and phase formation of ceramics based on pre-treated municipal incinerator bottom ash. <i>Open Ceramics</i> , 2021 , 5, 100044	3.3	2
118	Environmental impact estimation of ceramic lightweight aggregates production starting from residues. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 353-368	2	3
117	Amorphous silica wastes for reusing in highly porous ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 394-404	2	2
116	Valorization of Al slag in the production of green ceramic tiles: Effect of experimental conditions on microstructure and crystalline phase composition. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 776-784	3.8	2
115	Cleaner Design and Production of Lightweight Aggregates (LWAs) to Use in Agronomic Application. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 800	2.6	2
114	DESIGN AND CHARACTERIZATION OF CONTROLLED RELEASE PK FERTILIZERS FROM AGRO-RESIDUES. <i>Environmental Engineering and Management Journal</i> , 2020 , 19, 1669-1676	0.6	2
113	Comparison of Three Manufacturing Techniques for Sustainable Porous Clay Ceramics. <i>Materials</i> , 2020 , 14,	3.5	2

112	The circular economy of agro and post-consumer residues as raw materials for sustainable ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 22-31	2	21
111	Manufacturing and durability of alkali activated mortars containing different types of glass waste as aggregates valorisation. <i>Construction and Building Materials</i> , 2020 , 237, 117733	6.7	10
110	Valorization of Spent Coffee Grounds, Biochar and other residues to Produce Lightweight Clay Ceramic Aggregates Suitable for Nursery Grapevine Production. <i>Horticulturae</i> , 2020 , 6, 58	2.5	8
109	Preliminary Study on Sustainable NPK Slow-Release Fertilizers Based on Byproducts and Leftovers: A Design-of-Experiment Approach. <i>ACS Omega</i> , 2020 , 5, 27154-27163	3.9	6
108	The Environmental Friendly Route to Obtain Sodium Silicate Solution from Rice Husk Ash: A Comparative Study with Commercial Silicates Deflocculating Agents. <i>Waste and Biomass Valorization</i> , 2020 , 11, 6295-6305	3.2	7
107	Toxicological analysis of ceramic building materials - Tiles and glasses - Obtained from post-treated bottom ashes. <i>Waste Management</i> , 2019 , 98, 50-57	8.6	15
106	Spent Coffee Grounds in the Production of Lightweight Clay Ceramic Aggregates in View of Urban and Agricultural Sustainable Development. <i>Materials</i> , 2019 , 12,	3.5	15
105	Chelating Agent Treatment on Leaded Residuals from Glass Separated Urban Collection to Be Used in Cement Mortars. <i>Waste and Biomass Valorization</i> , 2018 , 9, 2493-2501	3.2	3
104	GASIFICATION OF BIOMASS FROM RIVER MAINTENANCE AND CHAR APPLICATION IN BUILDING MATERIALS PRODUCTION. <i>Environmental Engineering and Management Journal</i> , 2018 , 17, 2485-2496	0.6	4
103	Rice Husk Ash (RHA) Recycling in Brick Manufacture: Effects on Physical and Microstructural Properties. <i>Waste and Biomass Valorization</i> , 2018 , 9, 2529-2539	3.2	19
102	Geopolymerization as Cold-Consolidation Techniques for Hazardous and Non-Hazardous Wastes. <i>Key Engineering Materials</i> , 2017 , 751, 527-531	0.4	3
101	New fired bricks based on municipal solid waste incinerator bottom ash. <i>Waste Management and Research</i> , 2017 , 35, 1055-1063	4	20
100	Lead waste glasses management: Chemical pretreatment for use in cementitious composites. <i>Waste Management and Research</i> , 2017 , 35, 958-966	4	12
99	Effect of the chemical composition of different types of recycled glass used as aggregates on the ASR performance of cement mortars. <i>Construction and Building Materials</i> , 2017 , 154, 804-809	6.7	11
98	New ceramic materials from MSWI bottom ash obtained by an innovative microwave-assisted sintering process. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 323-331	6	25
97	Geopolymers based on the valorization of Municipal Solid Waste Incineration residues. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 251, 012125	0.4	5
96	VALORIZATION OF AGRO-INDUSTRIAL WASTES IN LIGHTWEIGHT AGGREGATES FOR AGRONOMIC USE: PRELIMINARY STUDY. <i>Environmental Engineering and Management Journal</i> , 2017 , 16, 1691-1699	0.6	15
95	Thermal approach to evaluate the sintering-crystallization ability in a nepheline-forsterite-based glass-ceramics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 123, 241-248	4.1	6

94	Environmentally Friendly Processes for the Recovery of Gold from Waste Electrical and Electronic Equipment (WEEE): A Review 2016 , 173-196		
93	Recycling of industrial wastes in ceramic manufacturing: State of art and glass case studies. <i>Ceramics International</i> , 2016 , 42, 13333-13338	5.1	92
92	Surface properties of new green building material after TiO ₂ /SiO ₂ coatings deposition. <i>Ceramics International</i> , 2016 , 42, 4866-4874	5.1	15
91	VALORIZATION OF TYRES WASTE PYROLYSIS RESIDUE IN LIGHTWEIGHT MATERIALS. <i>Environmental Engineering and Management Journal</i> , 2016 , 15, 1907-1914	0.6	2
90	VALORIZATION OF GLASS WASTES AS SUPPORT FOR LIPASE IMMOBILIZATION. <i>Environmental Engineering and Management Journal</i> , 2016 , 15, 1933-1940	0.6	1
89	Influence of fine aggregates on the microstructure, porosity and chemico-mechanical stability of inorganic polymer concretes. <i>Construction and Building Materials</i> , 2015 , 96, 473-483	6.7	17
88	Geopolymers: An option for the valorization of incinerator bottom ash derived End of waste□ <i>Ceramics International</i> , 2015 , 41, 2116-2123	5.1	31
87	Design of glass foams with low environmental impact. <i>Ceramics International</i> , 2015 , 41, 3400-3408	5.1	59
86	Glass waste as supplementary cementing materials: The effects of glass chemical composition. <i>Cement and Concrete Composites</i> , 2015 , 55, 45-52	8.6	73
85	Production of Cement Blocks and New Ceramic Materials with High Content of Glass Waste. <i>Key Engineering Materials</i> , 2015 , 663, 34-41	0.4	2
84	Chromium liquid waste inertization in an inorganic alkali activated matrix: leaching and NMR multinuclear approach. <i>Journal of Hazardous Materials</i> , 2015 , 286, 474-83	12.8	13
83	CATHODE RAY TUBE (CRT) LEAD GLASS: LEAD LEACHING STUDY AFTER A CHELATING AGENT TREATMENT. <i>Environmental Engineering and Management Journal</i> , 2015 , 14, 1503-1509	0.6	6
82	PHYSICAL-MECHANICAL PROPERTIES OF NEW GREEN BUILDING MATERIALS BASED ON GLASS WASTE. <i>Environmental Engineering and Management Journal</i> , 2015 , 14, 1735-1742	0.6	1
81	Incinerator Bottom Ash and Ladle Slag for Geopolymers Preparation. <i>Waste and Biomass Valorization</i> , 2014 , 5, 393-401	3.2	36
80	Sinter-crystallization in air and inert atmospheres of a glass from pre-treated municipal solid waste bottom ashes. <i>Journal of Non-Crystalline Solids</i> , 2014 , 389, 50-59	3.9	18
79	Comparison of biomethane production and digestate characterization for selected agricultural substrates in Italy. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 2212-26	2.6	13
78	Release of agronomical nutrient from zeolite substrate containing phosphatic waste. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 13237-42	5.1	6
77	Environmental friendly management of CRT glass by foaming with waste egg shells, calcite or dolomite. <i>Ceramics International</i> , 2014 , 40, 13371-13379	5.1	49

76	Rapid screening of different chelating agents in the lead extraction from cathode ray tube (CRT) funnel glass. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 13230-6	5.1	6
75	Glass-Ceramic Foams from Borosilicate Glass Waste. <i>International Journal of Applied Glass Science</i> , 2014 , 5, 136-145	1.8	28
74	Preliminary studies on the valorization of animal flour ash for the obtainment of active glasses. <i>Ceramics International</i> , 2014 , 40, 5619-5628	5.1	9
73	Management of agricultural biomass wastes: preliminary study on characterization and valorisation in clay matrix bricks. <i>Waste Management</i> , 2013 , 33, 2307-15	8.6	97
72	Alkali activation processes for incinerator residues management. <i>Waste Management</i> , 2013 , 33, 1740-9	8.6	60
71	Mix-design and characterization of alkali activated materials based on metakaolin and ladle slag. <i>Applied Clay Science</i> , 2013 , 73, 78-85	5.2	86
70	Technological properties of glass-ceramic tiles obtained using rice husk ash as silica precursor. <i>Ceramics International</i> , 2013 , 39, 5427-5435	5.1	48
69	The use of egg shells to produce Cathode Ray Tube (CRT) glass foams. <i>Ceramics International</i> , 2013 , 39, 9071-9078	5.1	58
68	Crystallisation and microstructure of nepheline-felsparite glass-ceramics. <i>Ceramics International</i> , 2013 , 39, 2955-2966	5.1	28
67	New composite materials based on glass waste. <i>Composites Part B: Engineering</i> , 2013 , 45, 497-503	10	8
66	Anaerobic digestion of selected Italian agricultural and industrial residues (grape seeds and leather dust): combined methane production and digestate characterization. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 1225-37	2.6	20
65	Agricultural waste in the synthesis of coral ceramic pigment. <i>Dyes and Pigments</i> , 2012 , 94, 207-211	4.6	32
64	Valorization of MSWI bottom ash through ceramic glazing process: a new technology. <i>Journal of Cleaner Production</i> , 2012 , 23, 147-157	10.3	27
63	Post-treated incinerator bottom ash as alternative raw material for ceramic manufacturing. <i>Journal of the European Ceramic Society</i> , 2012 , 32, 2843-2852	6	46
62	Life cycle assessment of advertising folders. <i>International Journal of Life Cycle Assessment</i> , 2012 , 17, 625-634	4.8	5
61	Integrated approach to establish the sinter-crystallization ability of glasses from secondary raw material. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 10-17	3.9	26
60	Minimization of Pb content in a ceramic glaze by reformulation the composition with secondary raw materials. <i>Ceramics International</i> , 2011 , 37, 1367-1375	5.1	25
59	Materiales vitrocerámicos del sistema MgO-Al ₂ O ₃ -SiO ₂ a partir de ceniza de cáscara de arroz. <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 2011 , 50, 201-206	1.9	10

58	Recycling of Screen Glass Into New Traditional Ceramic Materials. <i>International Journal of Applied Ceramic Technology</i> , 2010 , 7, 909-917	2	31
57	Characterization of Rice Husk Ash and Its Recycling as Quartz Substitute for the Production of Ceramic Glazes. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 121-126	3.8	38
56	New Geopolymers Based on Electric Arc Furnace Slag. <i>Advances in Science and Technology</i> , 2010 , 69, 117-122	1.22	6
55	New polypropylene/glass composites: Effect of glass fibers from cathode ray tubes on thermal and mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 435-440	8.4	10
54	A new environmentally friendly process for the recovery of gold from electronic waste. <i>Environmental Chemistry Letters</i> , 2010 , 8, 171-178	13.3	34
53	The recycling of MSWI bottom ash in silicate based ceramic. <i>Ceramics International</i> , 2010 , 36, 2469-2476	5.1	41
52	Chemical stability of geopolymers containing municipal solid waste incinerator fly ash. <i>Waste Management</i> , 2010 , 30, 673-9	8.6	116
51	Use of Incinerator Bottom Ash for Frit Production. <i>Journal of Industrial Ecology</i> , 2010 , 14, 200-216	7.2	19
50	Sintering and crystallization behavior of CaMgSi ₂ O ₆ -NaFeSi ₂ O ₆ based glass-ceramics. <i>Journal of Applied Physics</i> , 2009 , 106, 093502	2.5	7
49	New Blended Cement from Polishing and Glazing Ceramic Sludge. <i>International Journal of Applied Ceramic Technology</i> , 2009 , 7, 546	2	4
48	Structure, chemical durability and crystallization behavior of incinerator-based glassy systems. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 521-528	3.9	26
47	Reuse of incinerator bottom and fly ashes to obtain glassy materials. <i>Journal of Hazardous Materials</i> , 2008 , 153, 1270-4	12.8	44
46	Synthesis of chromium containing pigments from chromium galvanic sludges. <i>Journal of Hazardous Materials</i> , 2008 , 156, 466-71	12.8	33
45	Recycling of CRT panel glass as fluxing agent in the porcelain stoneware tile production. <i>Ceramics International</i> , 2008 , 34, 1289-1295	5.1	83
44	CRT glass state of the art. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 1623-1629	6	126
43	Effect of rice husk ash (RHA) in the synthesis of (Pr,Zr)SiO ₄ ceramic pigment. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3483-3488	6	48
42	Recycling of EOL CRT glass into ceramic glaze formulations and its environmental impact by LCA approach. <i>International Journal of Life Cycle Assessment</i> , 2007 , 12, 448-454	4.6	33
41	Microwave thermal inertisation of asbestos containing waste and its recycling in traditional ceramics. <i>Journal of Hazardous Materials</i> , 2006 , 135, 149-55	12.8	91

40	RF THERMAL PLASMA TREATMENT OF WASTE GLASS AND ITS REUTILIZATION IN COMPOSITE MATERIALS. <i>High Temperature Material Processes</i> , 2006 , 10, 207-218	1.8	4
39	Feasibility of Using Cordierite Glass-Ceramics as Tile Glazes. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1757-1766	3.8	26
38	Cathode ray tube glass recycling: an example of clean technology. <i>Waste Management and Research</i> , 2005 , 23, 314-21	4	46
37	Sintering and Crystallization of a Glass Powder in the $\text{Li}_2\text{O}-\text{rO}_2-\text{BiO}_2$ System. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 777-780	3.8	11
36	Nucleation and Crystallization of a Lithium Aluminosilicate Glass. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 3077-3083	3.8	35
35	Sintered Glass-Ceramics and Glass-Ceramic Matrix Composites from CRT Panel Glass. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1886-1891	3.8	42
34	The Anorthite-Diopside System: Structural and Devitrification Study. Part II: Crystallinity Analysis by the Rietveld-BIR Method. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3131-3136	3.8	33
33	Glass-ceramics obtained by the recycling of end of life cathode ray tubes glasses. <i>Waste Management</i> , 2005 , 25, 183-9	8.6	80
32	Reutilization of waste inert glass from the disposal of polluted dredging spoils by the obtainment of ceramic products for tiles applications. <i>Journal of Materials Science</i> , 2005 , 40, 5259-5264	4.3	12
31	Influence of the pozzolanic fraction obtained from vitrified bottom-ashes from MSWI on the properties of cementitious composites. <i>Materials and Structures/Materiaux Et Constructions</i> , 2005 , 38, 367-371	3.4	10
30	Incinerator waste as secondary raw material: examples of applications in glasses, glass-ceramics and ceramics. <i>Geological Society Special Publication</i> , 2004 , 236, 423-433	1.7	4
29	Crystallization of $(\text{Na}_2\text{O}-\text{MgO})-\text{CaO}-\text{Al}_2\text{O}_3-\text{BiO}_2$ Glassy Systems Formulated from Waste Products. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2515-2520	3.8	65
28	Nucleation and Crystallization of New Glasses from Fly Ash Originating from Thermal Power Plants. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 1851-1858	3.8	25
27	Experimental and computer simulation study of glasses belonging to diopside-northite system. <i>Journal of Non-Crystalline Solids</i> , 2004 , 345-346, 724-729	3.9	9
26	The effect of ZrO_2 in $30\text{K}_2\text{O}-70\text{SiO}_2$ glass: a comparison with $30\text{Li}_2\text{O}-70\text{SiO}_2$. <i>Journal of Materials Science</i> , 2003 , 38, 2627-2631	4.3	4
25	Experimental and MD Simulations Study of $\text{CaO}-\text{rO}_2-\text{BiO}_2$ Glasses. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6519-6525	3.4	12
24	Utilisation of municipal incinerator grate slag for manufacturing porcelainized stoneware tiles manufacturing. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 1457-1462	6	52
23	Thermal and chemical behaviour of different glasses containing steel fly ash and their transformation into glass-ceramics. <i>Journal of the European Ceramic Society</i> , 2002 , 22, 1759-1765	6	28

22	Use of municipal incinerator bottom ash as sintering promoter in industrial ceramics. <i>Waste Management</i> , 2002 , 22, 859-63	8.6	31
21	Glass matrix composites from solid waste materials. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 453-460	6	60
20	Structural studies and electrical properties of recycled glasses from glass and incinerator wastes. <i>Journal of Materials Science</i> , 2001 , 36, 2173-2177	4.3	15
19	The possibility to recycle solid residues of the municipal waste incineration into a ceramic tile body. <i>Journal of Materials Science</i> , 2001 , 36, 4869-4873	4.3	31
18	Bulk and sintered glass-ceramics by recycling municipal incinerator bottom ash. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 1637-1643	6	76
17	Alkaline and alkaline-earth silicate glasses and glass-ceramics from municipal and industrial wastes. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 2477-2483	6	116
16	Vitrification of industrial and natural wastes with production of glass fibres. <i>Journal of the European Ceramic Society</i> , 2000 , 20, 2485-2490	6	84
15	Effect of silicon carbide whisker reinforcement on CaO-ZrO ₂ -SiO ₂ glass-ceramic system. <i>Advances in Applied Ceramics</i> , 2000 , 99, 274-277		1
14	Design, obtainment and properties of glasses and glass-ceramics from coal fly ash. <i>Fuel</i> , 1999 , 78, 271-276	5.1	121
13	Influence of some transition metal cations on the properties of BaO-containing glasses and glass-ceramics. <i>Materials Research Bulletin</i> , 1999 , 34, 1825-1836	5.1	6
12	Effect of TiO ₂ addition on the properties of complex aluminosilicate glasses and glass-ceramics. <i>Materials Research Bulletin</i> , 1997 , 32, 637-648	5.1	60
11	The effect of the addition of ZrSiO ₄ on the crystallization of powdered glass. <i>Thermochimica Acta</i> , 1996 , 286, 375-386	2.9	9
10	Physical Properties of Quenched Glasses in the Li ₂ O-ZrO ₂ -SiO ₂ System. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1092-1094	3.8	15
9	Study of barium feldspar polymorphism as a function of temperature and calcium content. <i>Journal of Materials Science</i> , 1995 , 30, 373-380	4.3	4
8	The microstructure and mechanical properties of sintered celsian and strontium-celsian glass-ceramics. <i>Materials Research Bulletin</i> , 1995 , 30, 27-41	5.1	10
7	Solubility, reactivity and nucleation effect of Cr ₂ O ₃ in the CaO-MgO-Al ₂ O ₃ -SiO ₂ glassy system. <i>Journal of Materials Science</i> , 1994 , 29, 6273-6280	4.3	41
6	Structural studies on RO-MgO-Al ₂ O ₃ -SiO ₂ (R = Ca, Sr or Ba) glassy systems by density measurements. <i>Journal of Materials Science Letters</i> , 1994 , 13, 180-182		4
5	Colouring inorganic oxides in MgO-CaO-Al ₂ O ₃ -SiO ₂ glass-ceramic systems. <i>Journal of Non-Crystalline Solids</i> , 1993 , 155, 231-244	3.9	5

4	Non-isothermal kinetic equations applied to crystallization of glasses. <i>Thermochimica Acta</i> , 1993 , 227, 125-133	2.9	5
3	Influence of viscosity on the crystallization of some anorthite-diopside glass precursors. <i>Journal of Materials Science Letters</i> , 1993 , 12, 294-296		2
2	Kinetic study of surface nucleated MgO-CaO-Al ₂ O ₃ -SiO ₂ glasses. <i>Journal of Thermal Analysis</i> , 1992 , 38, 2639-2647		10
1	Processing Fly Ash from Coal Burning Power Station in a Variable Radiofrequency Field. <i>Ceramic Transactions</i> , 21-28	0.1	1