

Luisa Barbieri

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2443696/luisa-barbieri-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	CRT glass state of the art. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 1623-1629	6	126
128	Design, obtainment and properties of glasses and glass-ceramics from coal fly ash. <i>Fuel</i> , 1999 , 78, 271-276	5.1	121
127	Chemical stability of geopolymers containing municipal solid waste incinerator fly ash. <i>Waste Management</i> , 2010 , 30, 673-9	8.6	116
126	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
125	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
124	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
123	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
122	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
121	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
120	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
119	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
118	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
117	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
116	Crystallization of (Na ₂ O-MgO)-CaO-Al ₂ O ₃ -SiO ₂ Glassy Systems Formulated from Waste Products. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2515-2520	3.8	65
115	Alkali activation processes for incinerator residues management. <i>Waste Management</i> , 2013 , 33, 1740-9	8.6	60
114	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
113	Glass matrix composites from solid waste materials. <i>Journal of the European Ceramic Society</i> , 2001 , 21, 453-460	6	60

112	Design of glass foams with low environmental impact. <i>Ceramics International</i> , 2015 , 41, 3400-3408	5.1	59
111	The use of egg shells to produce Cathode Ray Tube (CRT) glass foams. <i>Ceramics International</i> , 2013 , 39, 9071-9078	5.1	58
110	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
109	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
108	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
107	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
106	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
105	Cathode ray tube glass recycling: an example of clean technology. <i>Waste Management and Research</i> , 2005 , 23, 314-21	4	46
104	Reuse of incinerator bottom and fly ashes to obtain glassy materials. <i>Journal of Hazardous Materials</i> , 2008 , 153, 1270-4	12.8	44
103	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
102	The recycling of MSWI bottom ash in silicate based ceramic. <i>Ceramics International</i> , 2010 , 36, 2469-2476	5.1	41
101	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
100	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
99	Incinerator Bottom Ash and Ladle Slag for Geopolymers Preparation. <i>Waste and Biomass Valorization</i> , 2014 , 5, 393-401	3.2	36
98	Nucleation and Crystallization of a Lithium Aluminosilicate Glass. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 3077-3083	3.8	35
97	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
96	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
95	Synthesis of chromium containing pigments from chromium galvanic sludges. <i>Journal of Hazardous Materials</i> , 2008 , 156, 466-71	12.8	33

94	The AnorthiteDiopside System: Structural and Devitrification Study. Part II: Crystallinity Analysis by the RietveldRIR Method. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3131-3136	3.8	33
93	Agricultural waste in the synthesis of coral ceramic pigment. <i>Dyes and Pigments</i> , 2012 , 94, 207-211	4.6	32
92	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
91	Recycling of Screen Glass Into New Traditional Ceramic Materials. <i>International Journal of Applied Ceramic Technology</i> , 2010 , 7, 909-917	2	31
90	Use of municipal incinerator bottom ash as sintering promoter in industrial ceramics. <i>Waste Management</i> , 2002 , 22, 859-63	8.6	31
89	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
88	GlassCeramic Foams from Borosilicate Glass Waste. <i>International Journal of Applied Glass Science</i> , 2014 , 5, 136-145	1.8	28
87	Crystallisation and microstructure of nephelineForsterite glass-ceramics. <i>Ceramics International</i> , 2013 , 39, 2955-2966	5.1	28
86	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
85	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
84	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
83	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
82	Feasibility of Using Cordierite Glass-Ceramics as Tile Glazes. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1757-1766	3.8	26
81	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
80	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
79	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
78	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
77	New fired bricks based on municipal solid waste incinerator bottom ash. <i>Waste Management and Research</i> , 2017 , 35, 1055-1063	4	20

76	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
75	Use of Incinerator Bottom Ash for Frit Production. <i>Journal of Industrial Ecology</i> , 2010 , 14, 200-216	7.2	19
74	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
73	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
72	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
71	Surface properties of new green building material after TiO ₂ /BiO ₂ coatings deposition. <i>Ceramics International</i> , 2016 , 42, 4866-4874	5.1	15
70	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
69	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
68	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
67	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
66	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
65	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
64	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
63	Lead waste glasses management: Chemical pretreatment for use in cementitious composites. <i>Waste Management and Research</i> , 2017 , 35, 958-966	4	12
62	Experimental and MD Simulations Study of CaO-ZrO ₂ -BiO ₂ Glasses. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6519-6525	3.4	12
61	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
60	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
59	Sintering and Crystallization of a Glass Powder in the Li ₂ O-ZrO ₂ -BiO ₂ System. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 777-780	3.8	11

58	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
57	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
56	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
55	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
54	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
53	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
52	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
51	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
50	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
49	New composite materials based on glass waste. <i>Composites Part B: Engineering</i> , 2013 , 45, 497-503	10	8
48	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
47	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
46	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
45	Thermal approach to evaluate the sintering-crystallization ability in a nepheline-β-stresterite-based glass-ceramics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 123, 241-248	4.1	6
44	Release of agronomical nutrient from zeolite substrate containing phosphatic waste. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 13237-42	5.1	6
43	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
42	New Geopolymers Based on Electric Arc Furnace Slag. <i>Advances in Science and Technology</i> , 2010 , 69, 117-122		6
41	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

40	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
39	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
38	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
37	Life cycle assessment of advertising folders. <i>International Journal of Life Cycle Assessment</i> , 2012 , 17, 625-634	4.3	5
36	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
35	Non-isothermal kinetic equations applied to crystallization of glasses. <i>Thermochimica Acta</i> , 1993 , 227, 125-133	2.9	5
34	Synthesis and Characterization of Biochar-Based Geopolymer Materials. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10945	2.6	5
33	New Blended Cement from Polishing and Glazing Ceramic Sludge. <i>International Journal of Applied Ceramic Technology</i> , 2009 , 7, 546	2	4
32	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
31	The effect of ZrO ₂ in 30K ₂ O-70SiO ₂ glass: a comparison with 30Li ₂ O-70SiO ₂ . <i>Journal of Materials Science</i> , 2003 , 38, 2627-2631	4.3	4
30	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
29	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
28	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
27	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
26	Geopolymerization as Cold-Consolidation Techniques for Hazardous and Non-Hazardous Wastes. <i>Key Engineering Materials</i> , 2017 , 751, 527-531	0.4	3
25	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
24	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
23	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

22	Recycling of Waste Corundum Abrasive Powder in Mk-Based Geopolymers. <i>Polymers</i> , 2022 , 14, 2173	4.5	3
21	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
20	Influence of viscosity on the crystallization of some anorthite-diopside glass precursors. <i>Journal of Materials Science Letters</i> , 1993 , 12, 294-296		2
19	VALORIZATION OF TYRES WASTE PYROLYSIS RESIDUE IN LIGHTWEIGHT MATERIALS. <i>Environmental Engineering and Management Journal</i> , 2016 , 15, 1907-1914	0.6	2
18	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
17	Comparison of Three Manufacturing Techniques for Sustainable Porous Clay Ceramics. <i>Materials</i> , 2020 , 14,	3.5	2
16	Sintering and phase formation of ceramics based on pre-treated municipal incinerator bottom ash. <i>Open Ceramics</i> , 2021 , 5, 100044	3.3	2
15	Amorphous silica wastes for reusing in highly porous ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 394-404	2	2
14	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
13	Cleaner Design and Production of Lightweight Aggregates (LWAs) to Use in Agronomic Application. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 800	2.6	2
12	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
11	Effect of silicon carbide whisker reinforcement on CaOZrO ₂ BiO ₂ glass/ceramic system. <i>Advances in Applied Ceramics</i> , 2000 , 99, 274-277		1
10	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
9	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
8	VALORIZATION OF GLASS WASTES AS SUPPORT FOR LIPASE IMMOBILIZATION. <i>Environmental Engineering and Management Journal</i> , 2016 , 15, 1933-1940	0.6	1
7	Eco-Compatible Construction Materials Containing Ceramic Sludge and Packaging Glass Cullet. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3545	2.6	1
6	Processing Fly Ash from Coal Burning Power Station in a Variable Radiofrequency Field. <i>Ceramic Transactions</i> , 21-28	0.1	1
5	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

4	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
3	Durability of biopolymeric composites formulated with fillers from a by-product of coffee roasting. <i>Polymer Composites</i> , 2022 , 43, 1485-1493	3	0
2	Environmentally Friendly Processes for the Recovery of Gold from Waste Electrical and Electronic Equipment (WEEE): A Review 2016 , 173-196		
1	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	