

# Naira Balzaretti

## List of Publications by Year in descending order

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95  
papers

1,318  
citations

430874

18  
h-index

434195

31  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1735  
citing authors

#	ARTICLE	IF	CITATIONS
1	High pressure effect in the near-infrared emission of Nd <sup>3+</sup> -doped alkali silicate glasses. High Pressure Research, 2022, 42, 1-13.	1.2	1
2	Fitting of interatomic potentials by a differential evolution algorithm. Computational Materials Science, 2021, 187, 109929.	3.0	0
3	Sm <sup>3+</sup> /Yb <sup>3+</sup> co-doped GeO <sub>2</sub> -PbO glass for efficiency enhancement of silicon solar cells. Optical Materials, 2021, 111, 110730.	3.6	8
4	Lithium disilicate glass produced at high pressure: Characterization of structural, thermal and mechanical properties. Journal of the American Ceramic Society, 2021, 104, 2552-2559.	3.8	3
5	Structural and optical properties of Nd <sup>3+</sup> doped GeO <sub>2</sub> -PbO glass modified by TiO <sub>2</sub> for applications in laser and fiber amplifier. Optical Materials, 2021, 113, 110884.	3.6	12
6	Effect of annealing close to T on the short-range order of lithium disilicate glass. Journal of Non-Crystalline Solids, 2021, 560, 120729.	3.1	4
7	First-principles study of carbon nanothreads derived from five-membered heterocyclic rings: thiophene, furan and pyrrole. Physical Chemistry Chemical Physics, 2021, 23, 2055-2062.	2.8	19
8	Tuning Anatase-Rutile Phase Transition Temperature: TiO <sub>2</sub> /SiO <sub>2</sub> Nanoparticles Applied in Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2019, 2019, 1-9.	2.5	17
9	Thermal stability of lithium metasilicate produced under high pressure from lithium disilicate glass. International Journal of Applied Glass Science, 2019, 10, 522-531.	2.0	4
10	High-grade MWCNT/ZrO <sub>2</sub> composites prepared by sol-gel method and high-pressure technique (4.0 GPa): mechanically resistant, porous, and conductive. Journal of Sol-Gel Science and Technology, 2019, 90, 348-358.	2.4	3
11	Polypyrrole/Ionic Liquid/Au Nanoparticle Counter-Electrodes for Dye-Sensitized Solar Cells: Improving Charge-Transfer Resistance at the CE/Electrolyte Interface. Journal of the Electrochemical Society, 2019, 166, H3188-H3194.	2.9	8
12	Electronic Transport and Raman Spectroscopy Characterization in Ion-Implanted Highly Oriented Pyrolytic Graphite. Journal of Low Temperature Physics, 2018, 190, 141-153.	1.4	0
13	Pyrolysis of $\alpha$ -aminoacids under high-pressure investigated by XPS, Raman and infrared spectroscopy. Materials Chemistry and Physics, 2018, 211, 107-116.	4.0	14
14	Nanocomposites of polyethylene/polyaniline/graphite with special morphology. Polymer Composites, 2018, 39, 3645-3655.	4.6	7
15	Effect of High Pressure in the Luminescence of Pr <sup>3+</sup> -Doped GeO <sub>2</sub> -PbO Glass Containing Au Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 27829-27835.	3.1	8
16	Synergistic interplay of ionic liquid and dodecyl sulphate driving the oxidation state of polypyrrole based electrodes. New Journal of Chemistry, 2018, 42, 13828-13835.	2.8	9
17	Thermal annealing of graphite oxide under high pressure: An experimental and computational study. Carbon, 2018, 139, 1035-1047.	10.3	8
18	Chemometrics-assisted study of the interconversion between the crystalline forms of nimodipine. Journal of Pharmaceutical and Biomedical Analysis, 2018, 158, 461-470.	2.8	9

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19	Novel NIR emission 4 G 5/2 to 6 F 11/2 and efficient multichannel emissions of Sm <sup>3+</sup> doped GeO <sub>2</sub> -PbO glass. <i>Journal of Luminescence</i> , 2017, 188, 193-198.	3.1	15
20	High pressure effect on structural and spectroscopic properties of Sm <sup>3+</sup> -doped alkali silicate glasses. <i>High Pressure Research</i> , 2017, 37, 296-311.	1.2	4
21	Photoluminescence of silica monoliths prepared from cold sintering of nanometric aerosil precursors under high pressure. <i>Journal of Luminescence</i> , 2017, 187, 154-159.	3.1	11
22	High-Pressure Effect in Visible NIR Emission of Sm <sup>3+</sup> -Doped GeO <sub>2</sub> -PbO Glasses. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28475-28483.	3.1	13
23	Effect of nitrogen and oxygen in the formation of graphitic structures from pyrolysis of amino acids at high pressures. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 126, 22-30.	5.5	6
24	Effect of gold nanoparticles in broadband near-infrared emission of Pr <sup>3+</sup> doped B <sub>2</sub> O <sub>3</sub> -PbO-Bi <sub>2</sub> O <sub>3</sub> -GeO <sub>2</sub> glass. <i>Journal of Luminescence</i> , 2017, 181, 147-152.	3.1	17
25	Spectroscopic and structural studies: effect of high pressure on selected polymers, glasses and clays. <i>Journal of Physics: Conference Series</i> , 2017, 950, 032015.	0.4	0
26	Few Layer Reduced Graphene Oxide: Evaluation of the Best Experimental Conditions for Easy Production. <i>Materials Research</i> , 2017, 20, 53-61.	1.3	60
27	Fourier transform infrared characterization of the Middle Devonian nonvascular plant <i>Spongiohyton</i> . <i>Palaeontology</i> , 2016, 59, 365-386.	2.2	10
28	Multichannel emission from Pr <sup>3+</sup> doped heavy-metal oxide glass B <sub>2</sub> O <sub>3</sub> -PbO-GeO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> for broadband signal amplification. <i>Journal of Luminescence</i> , 2016, 180, 341-347.	3.1	24
29	Spectroscopic properties of B <sub>2</sub> O <sub>3</sub> -PbO-Bi <sub>2</sub> O <sub>3</sub> -GeO <sub>2</sub> glass doped with Sm <sup>3+</sup> and gold nanoparticles. <i>Optical Materials</i> , 2016, 52, 230-236.	3.6	22
30	FTIR analysis and evaluation of carcinogenic and mutagenic risks of nitro-polycyclic aromatic hydrocarbons in PM 1.0. <i>Science of the Total Environment</i> , 2016, 541, 1151-1160.	8.0	78
31	Visible NIR emission and structural properties of Sm <sup>3+</sup> doped heavy-metal oxide glass with composition B <sub>2</sub> O <sub>3</sub> -PbO-Bi <sub>2</sub> O <sub>3</sub> -GeO <sub>2</sub> . <i>Journal of Luminescence</i> , 2016, 171, 106-111.	3.1	58
32	Vibrational study of 5-azacytosine and propanedinitrile under high pressure. <i>Vibrational Spectroscopy</i> , 2015, 78, 60-65.	2.2	1
33	Blue-green luminescent carbon nanodots produced in a silica matrix. <i>Carbon</i> , 2015, 91, 234-240.	10.3	14
34	Enhanced mechanical properties in ZrO <sub>2</sub> multi-walled carbon nanotube nanocomposites produced by sol-gel and high-pressure. <i>Nano Structures Nano Objects</i> , 2015, 4, 1-8.	3.5	7
35	Comparison of Emissivity, Transmittance, and Reflectance Infrared Spectra of Polycyclic Aromatic Hydrocarbons with those of Atmospheric Particulates (PM <sub>1</sub> ). <i>Aerosol and Air Quality Research</i> , 2015, 15, 1627-1639.	2.1	11
36	Structural changes of potassium-saturated smectite at high pressures and high temperatures: Application for subduction zones. <i>Applied Clay Science</i> , 2014, 102, 164-171.	5.2	12

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37	Experimental evidence regarding the pressure dependence of fission track annealing in apatite. <i>Earth and Planetary Science Letters</i> , 2014, 390, 1-7.	4.4	13
38	Raman and infrared vibrational modes of tricosane paraffin under high pressure. <i>Vibrational Spectroscopy</i> , 2014, 75, 93-100.	2.2	15
39	Stability of lanthanum-saturated montmorillonite under high pressure and high temperature conditions. <i>Applied Clay Science</i> , 2014, 102, 51-59.	5.2	10
40	Acid compositions in a veined-lower mantle, as indicated by inclusions of (K,Na)-Hollandite + SiO <sub>2</sub> in diamonds. <i>Lithos</i> , 2014, 196-197, 42-53.	1.4	5
41	X-ray study of lithium disilicate glass: High pressure densification and polyamorphism. <i>Journal of Non-Crystalline Solids</i> , 2014, 387, 112-116.	3.1	24
42	Wet ability of PTFE coated diamond films. <i>Surface and Coatings Technology</i> , 2013, 232, 384-388.	4.8	8
43	Surfactants for CNTs dispersion in zirconia-based ceramic matrix by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 65, 143-149.	2.4	13
44	Pressure and temperature stability range of crystalline lithium metasilicate in a binary Li <sub>2</sub> O·2SiO <sub>2</sub> glass. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1179-1183.	4.0	11
45	Nano-microstructured, superhydrophobic, and infrared transparent polytetrafluoroethylene/diamond films. <i>Journal of Nanophotonics</i> , 2013, 7, 073596.	1.0	4
46	Densification of Lithium Disilicate under High Pressure Investigated by XPS. <i>Open Journal of Inorganic Non-metallic Materials</i> , 2013, 03, 15-21.	2.7	7
47	High Infrared Transmittance, Superhydrophobic Coatings. , 2013, , .		0
48	Agglomeration defects on irradiated carbon nanotubes. <i>AIP Advances</i> , 2012, 2, 012174.	1.3	2
49	Decomposition of Ethanol Over Ni-Al Catalysts: Effect of Copper Addition. <i>Procedia Engineering</i> , 2012, 42, 335-345.	1.2	15
50	Carbon nanostructures produced by pyrolysis under high pressure inside a nanosize silica matrix. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1029-1034.	2.5	3
51	Behavior of the refractive index of lithium disilicate glass ceramic processed at high pressure and high temperature. <i>Optical Materials</i> , 2012, 34, 826-831.	3.6	20
52	In-situ FTIR analyses of bentonite under high-pressure. <i>Applied Clay Science</i> , 2011, 51, 202-208.	5.2	125
53	In situ infrared spectroscopy study of sucrose up to 14GPa. <i>Vibrational Spectroscopy</i> , 2011, , .	2.2	1
54	Effect of high pressure on the mechanical properties of lithium disilicate glass ceramic. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3921-3924.	5.6	18

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55	Ball cratering test on ductile materials. <i>Wear</i> , 2011, 271, 770-774.	3.1	10
56	Free-standing boron doped CVD diamond films grown on partially stabilized zirconia substrates. <i>Vibrational Spectroscopy</i> , 2010, 54, 84-88.	2.2	4
57	Effect of high pressure in the Li <sub>2</sub> O~2SiO <sub>2</sub> crystallization. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 3004-3008.	3.1	18
58	Effect of high pressure and high temperature on the mechanical behavior of diamond coated WC~Co. <i>Surface and Coatings Technology</i> , 2009, 203, 3344-3347.	4.8	0
59	Carbon nanotube/silica composites obtained by sol~gel and high-pressure techniques. <i>Nanotechnology</i> , 2008, 19, 265607.	2.6	36
60	The effects of xenon ion irradiation on the photoluminescence behavior of poly(p-cresolformaldehyde)/diazonaphthoquinone thin films. <i>Applied Surface Science</i> , 2007, 253, 9295-9300.	6.1	4
61	The effect of the combustible agents on the synthesis of Fe~Mo/MgO catalysts for the production of carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3901-3906.	1.5	6
62	Adhesion between CVD diamond and WC-Co induced by high-pressure and high-temperature. <i>Diamond and Related Materials</i> , 2006, 15, 1457-1461.	3.9	6
63	Bonding CVD Diamond to WC-Co by High Pressure - High Temperature Processing. <i>Materials Research Society Symposia Proceedings</i> , 2006, 987, 1.	0.1	0
64	Partially stabilized zirconia substrate for chemical vapor deposition of free-standing diamond films. <i>Diamond and Related Materials</i> , 2005, 14, 1605-1610.	3.9	5
65	Evaluation of the adhesion strength of diamond films brazed on K-10 type hard metal. <i>Materials Research</i> , 2004, 7, 293-297.	1.3	4
66	Fluorescent compacts prepared by the entrapment of benzoxazole type dyes into a silica matrix at high pressure. <i>Journal of Non-Crystalline Solids</i> , 2004, 333, 221-225.	3.1	19
67	High-pressure minerals in mafic microgranular enclaves: evidences for co-mingling between lamprophyric and syenitic magmas at mantle conditions. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 444-459.	3.1	21
68	Raman investigation of 2,5-bis(benzoxazol-2-yl)-4-methoxyphenol under high pressure. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 244-247.	2.5	1
69	High-pressure Raman and infrared spectroscopy of polyacetylene. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 259-263.	2.5	9
70	High pressure annealing of CVD diamond films. <i>Diamond and Related Materials</i> , 2003, 12, 290-294.	3.9	7
71	Study of the TiO <sub>2</sub> ~H <sub>2</sub> O~B <sub>2</sub> O <sub>3</sub> Ternary System at 7.7 GPa and High Temperatures. <i>Chemistry of Materials</i> , 2002, 14, 130-134.	6.7	5
72	High-Pressure Entrapment of Rhodamine 6G into a Silica Matrix. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 374, 201-206.	0.9	8

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73	Heavy ion (Xe and I) irradiation effects on photoresist films. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 733-738.	1.4	4
74	Processing of amorphous carbon films by ultrafast temperature treatment in a confined geometry. Journal of Applied Physics, 2001, 89, 8284-8290.	2.5	13
75	Thermal conductivity and thermal diffusivity of selected oxide single crystals. Journal of Materials Research, 2001, 16, 678-682.	2.6	8
76	Title is missing!. Journal of Materials Chemistry, 2001, 11, 3377-3381.	6.7	32
77	High pressure annealing of defects induced by ion implantation on graphite. Nuclear Instruments & Methods in Physics Research B, 2001, 175-177, 474-478.	1.4	6
78	Effect of hydrogen implantation on the graphite used in high pressure diamond synthesis. Diamond and Related Materials, 2000, 9, 22-25.	3.9	14
79	Resistance heating of the gasket in a gem-anvil high pressure cell. Review of Scientific Instruments, 1999, 70, 4316-4323.	1.3	9
80	Growth-rate dependence of the thermal conductivity of chemical-vapor-deposited diamond. Journal of Materials Research, 1999, 14, 3720-3724.	2.6	4
81	Experimental study of plastic deformation during sintering of cubic boron nitride compacts. Diamond and Related Materials, 1999, 8, 1451-1454.	3.9	20
82	Diamond nucleation suppression in chemical vapor deposition process. Diamond and Related Materials, 1999, 8, 2110-2117.	3.9	0
83	Report on a second round robin measurement of the thermal conductivity of CVD diamond. Diamond and Related Materials, 1998, 7, 1589-1604.	3.9	38
84	A modification of Ångström's method that employs photothermal radiometry to measure thermal diffusivity: Application to chemical vapor deposited diamond. Review of Scientific Instruments, 1998, 69, 237-243.	1.3	15
85	Workshop on thin film thermal conductivity measurements. , 1998, , .		0
86	Conference Report: Workshop on Thin Film Thermal Conductivity Measurement at the Thirteenth Symposium on Thermophysical Properties - Boulder, CO - June 25-26, 1997. Journal of Research of the National Institute of Standards and Technology, 1998, 103, 107.	1.2	2
87	High pressure loading of organic dyes into a silica matrix. Journal of Non-Crystalline Solids, 1997, 221, 157-162.	3.1	24
88	THE EFFECT OF THREE-BODY FORCES ON THE VOLUME DEPENDENCE OF THE ELECTRONIC POLARIZABILITY OF ALKALI HALIDES. Journal of Physics and Chemistry of Solids, 1997, 58, 999-1005.	4.0	1
89	Pressure dependence of the refractive index and electronic polarizability of LiF, MgF <sub>2</sub> and CaF <sub>2</sub> . Journal of Physics and Chemistry of Solids, 1996, 57, 179-182.	4.0	12
90	Pressure dependence of the refractive index of diamond, cubic silicon carbide and cubic boron nitride. Solid State Communications, 1996, 99, 943-948.	1.9	98

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91	Pressure dependence of the refractive index of monoclinic and yttria-stabilized cubic zirconia. Physical Review B, 1995, 52, 9266-9269.	3.2	29
92	Variation of the refractive index and polarizability of sapphire under high pressures. Journal of Applied Physics, 1993, 73, 1426-1429.	2.5	18
93	Interferometric method for high pressure measurements. High Pressure Research, 1991, 7, 85-87.	1.2	0
94	Volume dependence of the electronic polarizability of magnesium oxide. High Pressure Research, 1990, 2, 183-191.	1.2	14
95	Structure and mechanical properties of pyrope (Mg <sub>3</sub> Al <sub>2</sub> Si <sub>3</sub> O <sub>12</sub> ) glass: Effect of high pressure. International Journal of Applied Glass Science, 0, , .	2.0	3