

# Barbara Patrizi

## List of Publications by Year in descending order

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48  
papers

836  
citations

516215

16  
h-index

525886

27  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced energy transport in genetically engineered excitonic networks. <i>Nature Materials</i> , 2016, 15, 211-216.	13.3	82
2	EuPRAXIA Conceptual Design Report. <i>European Physical Journal: Special Topics</i> , 2020, 229, 3675-4284.	1.2	64
3	Horizon 2020 EuPRAXIA design study. <i>Journal of Physics: Conference Series</i> , 2017, 874, 012029.	0.3	60
4	TCDD Toxicity Mediated by Epigenetic Mechanisms. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4101.	1.8	51
5	An Overview on Yb-Doped Transparent Polycrystalline Sesquioxide Laser Ceramics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-8.	1.9	38
6	Subdiffraction localization of a nanostructured photosensitizer in bacterial cells. <i>Scientific Reports</i> , 2015, 5, 15564.	1.6	35
7	Photophysical properties and excited state dynamics of 4,7-dithien-2-yl-2,1,3-benzothiadiazole. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13604-13613.	1.3	35
8	Fabrication, microstructures, and optical properties of Yb:Lu <sub>2</sub> O <sub>3</sub> laser ceramics from co-precipitated nano-powders. <i>Journal of Advanced Ceramics</i> , 2020, 9, 674-682.	8.9	34
9	Transparent laser ceramics by stereolithography. <i>Scripta Materialia</i> , 2020, 187, 194-196.	2.6	31
10	Fabrication and laser operation of Yb:Lu <sub>2</sub> O <sub>3</sub> transparent ceramics from co-precipitated nano-powders. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7491-7499.	1.9	28
11	High efficiency emission of a laser based on Yb-doped (Lu,Y)2O <sub>3</sub> ceramic. <i>Optical Materials</i> , 2018, 83, 182-186.	1.7	27
12	Synergistic Approach of Ultrafast Spectroscopy and Molecular Simulations in the Characterization of Intramolecular Charge Transfer in Push-Pull Molecules. <i>Molecules</i> , 2020, 25, 430.	1.7	24
13	The FAMU experiment: muonic hydrogen high precision spectroscopy studies. <i>European Physical Journal A</i> , 2020, 56, 1.	1.0	23
14	Ultrafast Intramolecular and Solvation Dynamics in 4,7-Bis(4,5-dibutylbenzo[1,2- <i>b</i> :4,3- <i>b'</i> ]bisthiophene[1,2- <i>b</i> :4,3- <i>b'</i> ]bisthiophen-2-yl)-2,1,3-benzothiadiazole. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5840-5852.	1.5	21
15	Fabrication, microstructure, and optical properties of Tm:Y <sub>3</sub> ScAl <sub>4</sub> O <sub>12</sub> laser ceramics. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1819-1830.	1.9	19
16	A Comprehensive Characterization of a 10 at.% Yb:YSAG Laser Ceramic Sample. <i>Materials</i> , 2018, 11, 837.	1.3	17
17	Yb <sub>3+</sub> :(Lu <sub>x</sub> Y <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> mixed sesquioxide ceramics for laser applications. Part II: Laser performances. <i>Journal of Alloys and Compounds</i> , 2021, 853, 156943.	2.8	17
18	Fabrication, microstructure, and optical properties of Yb:Y <sub>3</sub> ScAl <sub>4</sub> O <sub>12</sub> transparent ceramics with different doping levels. <i>Journal of the American Ceramic Society</i> , 2020, 103, 224-234.	1.9	16

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19	Fabrication and Property of Yb:CaF <sub>2</sub> Laser Ceramics from Co-precipitated Nanopowders. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2019, 34, 1341.	0.6	16
20	Influences of the Sc <sup>3+</sup> content on the microstructure and optical properties of 10 at.% Yb:Y <sub>3</sub> Sc <sub>x</sub> Al <sub>5-x</sub> O <sub>12</sub> laser ceramics. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152637.	2.8	14
21	Spectroscopic investigation and laser behaviour of Yb-doped laser ceramics based on mixed crystalline structure (Sc <sub>x</sub> Y <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> . <i>Ceramics International</i> , 2021, 47, 29483-29489.	2.3	14
22	Fabrication and laser performances of Yb:Sc <sub>2</sub> O <sub>3</sub> transparent ceramics from different combination of vacuum sintering and hot isostatic pressing conditions. <i>Journal of the European Ceramic Society</i> , 2020, 40, 881-886.	2.8	13
23	Time- and Temperature-Dependent Luminescence of Manganese Ions in Ceramic Magnesium Aluminum Spinels. <i>Materials</i> , 2021, 14, 420.	1.3	13
24	Yb <sup>3+</sup> :(Lu <sub>x</sub> Y <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> mixed sesquioxide ceramics for laser applications. Part I: Fabrication, microstructure and spectroscopy. <i>Journal of Alloys and Compounds</i> , 2021, 869, 159227.	2.8	13
25	Fabrication and Optical Property of Nd:Lu <sub>2</sub> O <sub>3</sub> Transparent Ceramics for Solid-state Laser Applications. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 210.	0.6	12
26	Status of the Horizon 2020 EuPRAXIA conceptual design study*. <i>Journal of Physics: Conference Series</i> , 2019, 1350, 012059.	0.3	11
27	Carbon Monoxide Recombination Dynamics in Truncated Hemoglobins Studied with Visible-Pump MidIR-Probe Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8753-8761.	1.2	10
28	Dioxin and Related Compound Detection: Perspectives for Optical Monitoring. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2671.	1.8	10
29	Continuously tuned (Tm <sub>0.05</sub> Sc <sub>0.25</sub> Y <sub>0.698</sub> ) <sub>2</sub> O <sub>3</sub> ceramic laser with emission peak at 2076 nm. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161585.	2.8	10
30	Fabrication and characterizations of Tm:Lu <sub>2</sub> O <sub>3</sub> transparent ceramics for 2 μm laser applications. <i>Optical Materials</i> , 2022, 131, 112705.	1.7	9
31	An in depth characterization of the spectroscopic properties and laser action of 10 at% Yb doped Y <sub>3</sub> Sc <sub>x</sub> Al <sub>5-x</sub> O <sub>12</sub> (x = 0.25, 0.5, 1.0, 1.5) transparent ceramics. <i>Ceramics International</i> , 2020, 46, 17252-17260.	2.3	8
32	Hot isostatic pressing of transparent Yb <sup>3+</sup> -doped Lu <sub>2</sub> O <sub>3</sub> ceramics for laser applications. <i>Ceramics International</i> , 2021, 47, 5168-5176.	2.3	8
33	EuPRAXIA – a compact, cost-efficient particle and radiation source. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	7
34	First quantitative measurements by IR spectroscopy of dioxins and furans by means of broadly tunable quantum cascade lasers. <i>Laser Physics</i> , 2013, 23, 025603.	0.6	6
35	Role of Local Structure and Dynamics of Small Ligand Migration in Proteins: A Study of a Mutated Truncated Hemoprotein from <i>Thermobifida fusca</i> by Time Resolved MIR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9209-9217.	1.2	6
36	Cold-Adaptation Signatures in the Ligand Rebinding Kinetics to the Truncated Hemoglobin of the Antarctic Bacterium <i>Pseudoalteromonas haloplanktis</i> TAC125. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11649-11661.	1.2	6

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37	Conceptual Design of a Laser Driver for a Plasma Accelerator User Facility. <i>Instruments</i> , 2019, 3, 40.	0.8	6
38	Characteristic vibrational frequencies of toxic polychlorinated dibenzo-dioxins and -furans. <i>Journal of Hazardous Materials</i> , 2014, 274, 98-105.	6.5	5
39	Microstructure and laser emission of Yb:CaF <sub>2</sub> transparent ceramics fabricated by air pre-sintering and hot isostatic pressing. <i>Optical Materials</i> , 2022, 129, 112540.	1.7	4
40	Time- and temperature-resolved luminescence spectroscopy of LiAl <sub>4</sub> O <sub>6</sub> F:Mn red phosphors. <i>Journal of Luminescence</i> , 2019, 216, 116754.	1.5	3
41	Fabrication, microstructure and optical properties of Yb:Lu <sub>3</sub> -xAl <sub>5</sub> O <sub>12</sub> transparent ceramics. <i>Optical Materials</i> , 2020, 110, 110478.	1.7	3
42	(INVITED) Determination of non-linear refractive index of laser crystals and ceramics via different optical techniques. <i>Optical Materials: X</i> , 2020, 8, 100065.	0.3	3
43	Specifics of Spectroscopic Features of Yb <sup>3+</sup> Doped Lu <sub>2</sub> O <sub>3</sub> Laser Transparent Ceramics. <i>Physica Status Solidi (B): Basic Research</i> , 0, , 2100521.	0.7	2
44	Spectroscopic characterization and laser test of a 10at.% Yb:Y <sub>3</sub> Sc <sub>1.5</sub> Al <sub>3.5</sub> O <sub>12</sub> ceramic sample. <i>Advanced Materials Letters</i> , 2019, 10, 45-48.	0.3	1
45	Exciplex Formation in Lipid-bound Escherichia coli Flavohemoglobin. <i>ChemPhysChem</i> , 2021, 22, 1134-1140.	1.0	0
46	Red-Emitting Manganese Doped MgAl <sub>2</sub> O <sub>4</sub> Ceramic Spinel Studied by Time- and Temperature-Resolved Luminescence Spectroscopy. , 2021, , .		0
47	Fabrication, spectroscopic characterization and laser test of Yb:Sc <sub>2</sub> O <sub>3</sub> transparent ceramics. , 2018, , .		0
48	The project SPIDVE: study on EO sensors performance improvement in degraded visual environment. , 2019, , .		0