

# Barbara Patrizi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8471946/publications.pdf>

Version: 2024-02-01

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	Microstructure and laser emission of Yb:CaF <sub>2</sub> transparent ceramics fabricated by air pre-sintering and hot isostatic pressing. Optical Materials, 2022, 129, 112540.	1.7	4
2	Fabrication and characterizations of Tm:Lu <sub>2</sub> O <sub>3</sub> transparent ceramics for 2 $\mu$ m laser applications. Optical Materials, 2022, 131, 112705.	1.7	9
3	Hot isostatic pressing of transparent Yb <sup>3+</sup> -doped Lu <sub>2</sub> O <sub>3</sub> ceramics for laser applications. Ceramics International, 2021, 47, 5168-5176.	2.3	8
4	Yb <sup>3+</sup> :(Lu <sub>1-x</sub> Y <sub>x</sub> ) <sub>2</sub> O <sub>3</sub> mixed sesquioxide ceramics for laser applications. Part II: Laser performances. Journal of Alloys and Compounds, 2021, 853, 156943.	2.8	17
5	Fabrication and Optical Property of Nd:Lu <sub>2</sub> O <sub>3</sub> Transparent Ceramics for Solid-state Laser Applications. Wujia Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 210.	0.6	12
6	Time- and Temperature-Dependent Luminescence of Manganese Ions in Ceramic Magnesium Aluminum Spinel. Materials, 2021, 14, 420.	1.3	13
7	Exciplex Formation in Lipid-bound Escherichia coli Flavohemoglobin. ChemPhysChem, 2021, 22, 1134-1140.	1.0	0
8	Red-Emitting Manganese Doped MgAl <sub>2</sub> O <sub>4</sub> Ceramic Spinel Studied by Time- and Temperature-Resolved Luminescence Spectroscopy. , 2021, , .		0
9	Yb <sup>3+</sup> :(Lu <sub>1-x</sub> Y <sub>x</sub> ) <sub>2</sub> O <sub>3</sub> mixed sesquioxide ceramics for laser applications. Part I: Fabrication, microstructure and spectroscopy. Journal of Alloys and Compounds, 2021, 869, 159227.	2.8	13
10	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> . Ceramics International, 2021, 47, 29483-29489.	2.3	14
11	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. Journal of Alloys and Compounds, 2021, 889, 161585.	2.8	10
12	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. Journal of Alloys and Compounds, 2020, 815, 152637.	2.8	14
13	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. Journal of the American Ceramic Society, 2020, 103, 224-234.	1.9	16
14	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. Journal of the European Ceramic Society, 2020, 40, 881-886.	2.8	13
15	Fabrication, microstructure, and optical properties of Tm:Y <sub>3</sub> ScAl <sub>4</sub> O <sub>12</sub> laser ceramics. Journal of the American Ceramic Society, 2020, 103, 1819-1830.	1.9	19
16	Fabrication, microstructure and optical properties of Yb:Lu <sub>0.9</sub> Y <sub>0.1</sub> Al <sub>5</sub> O <sub>12</sub> transparent ceramics. Optical Materials, 2020, 110, 110478.	1.7	3
17	(INVITED) Determination of non-linear refractive index of laser crystals and ceramics via different optical techniques. Optical Materials: X, 2020, 8, 100065.	0.3	3
18	Fabrication, microstructures, and optical properties of Yb:Lu <sub>2</sub> O <sub>3</sub> laser ceramics from co-precipitated nano-powders. Journal of Advanced Ceramics, 2020, 9, 674-682.	8.9	34

#	ARTICLE	IF	CITATIONS
19	The FAMU experiment: muonic hydrogen high precision spectroscopy studies. European Physical Journal A, 2020, 56, 1.	1.0	23
20	Transparent laser ceramics by stereolithography. Scripta Materialia, 2020, 187, 194-196.	2.6	31
21	Synergistic Approach of Ultrafast Spectroscopy and Molecular Simulations in the Characterization of Intramolecular Charge Transfer in Push-Pull Molecules. Molecules, 2020, 25, 430.	1.7	24
22	An in depth characterization of the spectroscopic properties and laser action of 10 at% Yb doped Y3ScxAl5-xO12 (x = 0.25, 0.5, 1.0, 1.5) transparent ceramics. Ceramics International, 2020, 46, 17252-17260.	2.3	8
23	EuPRAXIA Conceptual Design Report. European Physical Journal: Special Topics, 2020, 229, 3675-4284.	1.2	64
24	Fabrication and laser operation of Yb:Lu <sub>2</sub> O <sub>3</sub> transparent ceramics from co-precipitated nano-powders. Journal of the American Ceramic Society, 2019, 102, 7491-7499.	1.9	28
25	Time- and temperature-resolved luminescence spectroscopy of LiAl4O6F:Mn red phosphors. Journal of Luminescence, 2019, 216, 116754.	1.5	3
26	Conceptual Design of a Laser Driver for a Plasma Accelerator User Facility. Instruments, 2019, 3, 40.	0.8	6
27	EuPRAXIA – a compact, cost-efficient particle and radiation source. AIP Conference Proceedings, 2019, , .	0.3	7
28	Dioxin and Related Compound Detection: Perspectives for Optical Monitoring. International Journal of Molecular Sciences, 2019, 20, 2671.	1.8	10
29	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-benzoxadiazole. Journal of Physical Chemistry C, 2019, 123, 5840-5852.	1.4	4
30	Status of the Horizon 2020 EuPRAXIA conceptual design study*. Journal of Physics: Conference Series, 2019, 1350, 012059.	0.3	11
31	Fabrication and Property of Yb:CaF2 Laser Ceramics from Co-precipitated Nanopowders. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2019, 34, 1341.	0.6	16
32	Spectroscopic characterization and laser test of a 10at.% Yb:Y3Sc1.5Al3.5O12 ceramic sample. Advanced Materials Letters, 2019, 10, 45-48.	0.3	1
33	The project SPIDVE: study on EO sensors performance improvement in degraded visual environment. , 2019, , .		0
34	An Overview on Yb-Doped Transparent Polycrystalline Sesquioxide Laser Ceramics. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8.	1.9	38
35	TCDD Toxicity Mediated by Epigenetic Mechanisms. International Journal of Molecular Sciences, 2018, 19, 4101.	1.8	51
36	Cold-Adaptation Signatures in the Ligand Rebinding Kinetics to the Truncated Hemoglobin of the Antarctic Bacterium <i>Pseudoalteromonas haloplanktis</i> TAC125. Journal of Physical Chemistry B, 2018, 122, 11649-11661.	1.2	6

#	ARTICLE	IF	CITATIONS
37	A Comprehensive Characterization of a 10 at.% Yb:YSAG Laser Ceramic Sample. Materials, 2018, 11, 837.	1.3	17
38	High efficiency emission of a laser based on Yb-doped (Lu,Y)2O3 ceramic. Optical Materials, 2018, 83, 182-186.	1.7	27
39	Fabrication, spectroscopic characterization and laser test of Yb:Sc2O3 transparent ceramics. , 2018, , .		0
40	Photophysical properties and excited state dynamics of 4,7-dithien-2-yl-2,1,3-benzothiadiazole. Physical Chemistry Chemical Physics, 2017, 19, 13604-13613.	1.3	35
41	Horizon 2020 EuPRAXIA design study. Journal of Physics: Conference Series, 2017, 874, 012029.	0.3	60
42	Enhanced energy transport in genetically engineered excitonic networks. Nature Materials, 2016, 15, 211-216.	13.3	82
43	Subdiffraction localization of a nanostructured photosensitizer in bacterial cells. Scientific Reports, 2015, 5, 15564.	1.6	35
44	Characteristic vibrational frequencies of toxic polychlorinated dibenzo-dioxins and -furans. Journal of Hazardous Materials, 2014, 274, 98-105.	6.5	5
45	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. Journal of Physical Chemistry B, 2014, 118, 9209-9217.	1.2	6
46	First quantitative measurements by IR spectroscopy of dioxins and furans by means of broadly tunable quantum cascade lasers. Laser Physics, 2013, 23, 025603.	0.6	6
47	Carbon Monoxide Recombination Dynamics in Truncated Hemoglobins Studied with Visible-Pump MidIR-Probe Spectroscopy. Journal of Physical Chemistry B, 2012, 116, 8753-8761.	1.2	10
48	Specifics of Spectroscopic Features of Yb <sup>3+</sup> -Doped Lu <sub>2</sub> O <sub>3</sub> Laser Transparent Ceramics. Physica Status Solidi (B): Basic Research, 0, , 2100521.	0.7	2