Barbara Patrizi

List of Publications by Year
in descending order

48	836	516710 16	526287 27
papers	citations	h-index	g-index

49	49	49	1052
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced energy transport in genetically engineered excitonic networks. Nature Materials, 2016, 15, 211-216.	27.5	82
2	EuPRAXIA Conceptual Design Report. European Physical Journal: Special Topics, 2020, 229, 3675-4284.	2.6	64
3	Horizon 2020 EuPRAXIA design study. Journal of Physics: Conference Series, 2017, 874, 012029.	0.4	60
4	TCDD Toxicity Mediated by Epigenetic Mechanisms. International Journal of Molecular Sciences, 2018, 19, 4101.	4.1	51
5	An Overview on Yb-Doped Transparent Polycrystalline Sesquioxide Laser Ceramics. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8.	2.9	38
6	Subdiffraction localization of a nanostructured photosensitizer in bacterial cells. Scientific Reports, 2015, 5, 15564.	3.3	35
7	Photophysical properties and excited state dynamics of 4,7-dithien-2-yl-2,1,3-benzothiadiazole. Physical Chemistry Chemical Physics, 2017, 19, 13604-13613.	2.8	35
8	Fabrication, microstructures, and optical properties of Yb:Lu2O3 laser ceramics from co-precipitated nano-powders. Journal of Advanced Ceramics, 2020, 9, 674-682.	17.4	34
9	Transparent laser ceramics by stereolithography. Scripta Materialia, 2020, 187, 194-196.	5.2	31
10	Fabrication and laser operation of Yb:Lu₂O₃ transparent ceramics from coâ€precipitated nanoâ€powders. Journal of the American Ceramic Society, 2019, 102, 7491-7499.	3.8	28
11	High efficiency emission of a laser based on Yb-doped (Lu,Y)2O3 ceramic. Optical Materials, 2018, 83, 182-186.	3.6	27
12	Synergistic Approach of Ultrafast Spectroscopy and Molecular Simulations in the Characterization of Intramolecular Charge Transfer in Push-Pull Molecules. Molecules, 2020, 25, 430.	3.8	24
13	The FAMU experiment: muonic hydrogen high precision spectroscopy studies. European Physical Journal A, 2020, 56, 1.	2.5	23
14	Ultrafast Intramolecular and Solvation Dynamics in 4,7-Bis (4,5-dibutylbenzo[1,2-b:4,3-bâ€²]bisthiophene[1,2-b:4,3-bâ€²]bisthiophen-2-yl)-2,1,3-benzothiadiazole. Journal of Physical Chemistry C, 2019, 123, 5840-5852.	3.7	22
15	Fabrication, microstructure, and optical properties of Tm:Y₃ScAl₄O₁₂ laser ceramics. Journal of the American Ceramic Society, 2020, 103, 1819-1830.	3.8	19
16	A Comprehensive Characterization of a 10 at.% Yb:YSAG Laser Ceramic Sample. Materials, 2018, 11, 837.	2.9	17
17	Yb3+:(LuxY1-x)2O3 mixed sesquioxide ceramics for laser applications. Part II: Laser performances. Journal of Alloys and Compounds, 2021, 853, 156943.	5.5	17
18	Fabrication, microstructure, and optical properties of Yb:Y₃ScAl₄O₁₂ transparent ceramics with different doping levels. Journal of the American Ceramic Society, 2020, 103, 224-234.	3.8	16

#	Article	IF	Citations
19	Fabrication and Property of Yb:CaF2 Laser Ceramics from Co-precipitated Nanopowders. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2019, 34, 1341.	1.3	16
20	Influences of the Sc3+ content on the microstructure and optical properties of 10â€¯at.% Yb:Y3ScxAl5-xO12 laser ceramics. Journal of Alloys and Compounds, 2020, 815, 152637.	5.5	14
21	Spectroscopic investigation and laser behaviour of Yb-doped laser ceramics based on mixed crystalline structure (ScxY1-x)2O3. Ceramics International, 2021, 47, 29483-29489.	4.8	14
22	Fabrication and laser performances of Yb:Sc2O3 transparent ceramics from different combination of vacuum sintering and hot isostatic pressing conditions. Journal of the European Ceramic Society, 2020, 40, 881-886.	5.7	13
23	Time- and Temperature-Dependent Luminescence of Manganese Ions in Ceramic Magnesium Aluminum Spinels. Materials, 2021, 14, 420.	2.9	13
24	Yb3+:(LuxY1â^'x)2O3 mixed sesquioxide ceramics for laser applications. Part I: Fabrication, microstructure and spectroscopy. Journal of Alloys and Compounds, 2021, 869, 159227.	5.5	13
25	Fabrication and Optical Property of Nd:Lu₂O₃Transparent Ceramics for Solid-state Laser Applications. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 210.	1.3	12
26	Status of the Horizon 2020 EuPRAXIA conceptual design study*. Journal of Physics: Conference Series, 2019, 1350, 012059.	0.4	11
27	Carbon Monoxide Recombination Dynamics in Truncated Hemoglobins Studied with Visible-Pump MidIR-Probe Spectroscopy. Journal of Physical Chemistry B, 2012, 116, 8753-8761.	2.6	10
28	Dioxin and Related Compound Detection: Perspectives for Optical Monitoring. International Journal of Molecular Sciences, 2019, 20, 2671.	4.1	10
29	Continuously tuned (Tm0.05Sc0.252Y0.698)2O3 ceramic laser with emission peak at 2076Ânm. Journal of Alloys and Compounds, 2021, 889, 161585.	5.5	10
30	Fabrication and characterizations of Tm:Lu2O3 transparent ceramics for 2ÂÎ¼m laser applications. Optical Materials, 2022, 131, 112705.	3.6	9
31	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.	4.8	8
32	Hot isostatic pressing of transparent Yb3+-doped Lu2O3 ceramics for laser applications. Ceramics International, 2021, 47, 5168-5176.	4.8	8
33	EuPRAXIA â€“ a compact, cost-efficient particle and radiation source. AIP Conference Proceedings, 2019, , .	0.4	7
34	First quantitative measurements by IR spectroscopy of dioxins and furans by means of broadly tunable quantum cascade lasers. Laser Physics, 2013, 23, 025603.	1.2	6
35	Role of Local Structure and Dynamics of Small Ligand Migration in Proteins: A Study of a Mutated Truncated Hemoprotein from Thermobifida fusca by Time Resolved MIR Spectroscopy. Journal of Physical Chemistry B, 2014, 118, 9209-9217.	2.6	6
36	Cold-Adaptation Signatures in the Ligand Rebinding Kinetics to the Truncated Hemoglobin of the Antarctic Bacterium Pseudoalteromonas haloplanktis TAC125. Journal of Physical Chemistry B, 2018, 122, 11649-11661.	2.6	6

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37	Conceptual Design of a Laser Driver for a Plasma Accelerator User Facility. Instruments, 2019, 3, 40.	1.8	6
38	Characteristic vibrational frequencies of toxic polychlorinated dibenzo-dioxins and -furans. Journal of Hazardous Materials, 2014, 274, 98-105.	12.4	5
39	Microstructure and laser emission of Yb:CaF2 transparent ceramics fabricated by air pre-sintering and hot isostatic pressing. Optical Materials, 2022, 129, 112540.	3.6	4
40	Time- and temperature-resolved luminescence spectroscopy of LiAl4O6F:Mn red phosphors. Journal of Luminescence, 2019, 216, 116754.	3.1	3
41	Fabrication, microstructure and optical properties of Yb:LuxY3-xAl5O12 transparent ceramics. Optical Materials, 2020, 110, 110478.	3.6	3
42	(INVITED) Determination of non-linear refractive index of laser crystals and ceramics via different optical techniques. Optical Materials: X, 2020, 8, 100065.	0.8	3
43	Specifics of Spectroscopic Features of Yb 3+ â€Doped Lu 2 O 3 Laser Transparent Ceramics. Physica Status Solidi (B): Basic Research, 0, , 2100521.	1.5	2
44	Spectroscopic characterization and laser test of a 10at.% Yb:Y3Sc1.5Al3.5O12 ceramic sampleÂÂ. Advanced Materials Letters, 2019, 10, 45-48.	0.6	1
45	Exciplex Formation in Lipidâ€bound Escherichia coli Flavohemoglobin. ChemPhysChem, 2021, 22, 1134-1140.	2.1	0
46	Red-Emitting Manganese Doped MgAl2O4 Ceramic Spinels Studied by Time- and Temperature-Resolved Luminescence Spectroscopy. , 2021, , .		0
47	Fabrication, spectroscopic characterization and laser test of Yb:Sc2O3 transparent ceramics. , 2018, , .		0
48	The project SPIDVE: study on EO sensors performance improvement in degraded visual environment. , 2019, , .		0