

Stefania Hau

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

268
citations

933447

10
h-index

996975

15
g-index

28
all docs

28
docs citations

28
times ranked

351
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and characterization of 3.5 at.% Nd:LGSB bifunctional crystal. Optical Materials, 2022, 123, 111832.	3.6	3
2	Pr:LGSB as a new nonlinear optical crystal: Czochralski growth and optical characterization. Journal of Alloys and Compounds, 2022, 908, 164633.	5.5	1
3	A novel IR-transparent Ho ³⁺ :Y ₂ O ₃ @MgO nanocomposite ceramics for potential laser applications. Ceramics International, 2021, 47, 1399-1406.	4.8	6
4	LYSB and Yb-doped LYSB Crystals: Czochralski Growth, Optical Characterization and Laser Emission Performances. , 2021, , .		0
5	Optical study of SrLaGa ₃ O ₇ ceramic samples doped with Er ³⁺ and Yb ³⁺ . Optical Materials, 2020, 100, 109613.	3.6	7
6	Efficient near-infrared laser emission and nonlinear optical properties of a newly developed Yb:LYSB laser crystal. Journal of Alloys and Compounds, 2020, 844, 156143.	5.5	9
7	(INVITED) Czochralski-grown La _x Gd _y RzSc _{4-x-y-z} (BO ₃) ₄ (R = Yb, Nd) crystals - A review of recent developments. Optical Materials: X, 2020, 7, 100052.	0.8	2
8	Bifunctional La _x Nd _y Gd _z Sc _{4-x-y-z} (BO ₃) ₄ crystal: Czochralski growth, linear and nonlinear optical properties, and near-infrared laser emission performances. Optics and Laser Technology, 2020, 131, 106433.	4.6	9
9	Enhancement of the laser emission efficiency of Yb:Y ₂ O ₃ ceramics via multi-step sintering method fabrication. Optical Materials, 2020, 109, 110411.	3.6	7
10	New Yb:LYSB bifunctional crystal for efficient near-infrared laser emission and self-frequency doubling conversion. EPJ Web of Conferences, 2020, 243, 06004.	0.3	0
11	Efficient 1 Åµm Laser Emission of Czochralski-Grown Nd:LGSB Single Crystal. Materials, 2019, 12, 2005.	2.9	7
12	Highly Efficient Laser Emission from a Novel Nd:LGSB Crystal. , 2019, , .		0
13	Spectroscopic investigations of Pr ³⁺ ions doped CNGG and CLNGG single crystals. Journal of Alloys and Compounds, 2019, 799, 288-301.	5.5	8
14	Highly transparent Yb:Y ₂ O ₃ ceramics obtained by solid-state reaction and combined sintering procedures. Ceramics International, 2019, 45, 3217-3222.	4.8	17
15	Yellow laser potential of cubic Ca ₃ (Nb,Ga) ₅ O ₁₂ :Dy ³⁺ and Ca ₃ (Li,Nb,Ga) ₅ O ₁₂ :Dy ³⁺ single crystals. Journal of Alloys and Compounds, 2018, 739, 806-816.	5.5	16
16	1532Å nm sensitized luminescence and up-conversion in Yb,Er:YAG transparent ceramics. Optical Materials, 2018, 77, 221-225.	3.6	6
17	Crystal growth and structural characterization of Sm ³⁺ , Pr ³⁺ and Dy ³⁺ -doped CNGG and CLNGG single crystals. Optical Materials, 2018, 84, 335-338.	3.6	6
18	Vibronics in optical spectra of Yb ³⁺ and Ce ³⁺ in YAG and Y ₂ O ₃ ceramics. Optical Materials, 2017, 63, 143-152.	3.6	12

#	ARTICLE	IF	CITATIONS
19	Structural and electron-phonon interaction effects in optical spectra of Pr ³⁺ and Sm ³⁺ in YAG. Journal of Alloys and Compounds, 2017, 706, 176-185.	5.5	6
20	Optical properties of Sm ³⁺ doped Ca ₃ (Nb,Ga) ₅ O ₁₂ and Ca ₃ (Li,Nb,Ga) ₅ O ₁₂ single crystals. Journal of Luminescence, 2017, 186, 175-182.	3.1	17
21	Structural-phase state and lasing of 5 at% Yb ³⁺ :Y ₃ Al ₅ O ₁₂ optical ceramics. Journal of the European Ceramic Society, 2017, 37, 4115-4122.	5.7	16
22	Compositional dependence of optical properties of Sm ³⁺ -doped Y ₃ Sc _x Al _{5-x} O ₁₂ polycrystalline ceramics. Journal of Alloys and Compounds, 2016, 683, 547-553.	5.5	13
23	Spectroscopic properties and laser performances of Yb:LGSB nonlinear optical crystal. Journal of Alloys and Compounds, 2016, 688, 510-517.	5.5	12
24	Structure and temperature effects on Nd ³⁺ spectra in polycrystalline mixed scandium aluminum garnets Y ₃ Sc _x Al _{5-x} O ₁₂ . Optical Materials, 2015, 47, 465-472.	3.6	7
25	Optical properties of Sm ³⁺ doped strontium hexa-aluminate single crystals. Journal of Alloys and Compounds, 2015, 622, 296-302.	5.5	17
26	Multicenters in Ce ³⁺ visible emission of YAG ceramics. Optical Materials, 2014, 37, 727-733.	3.6	15
27	Nd ³⁺ →Yb energy transfer in (Nd, Yb):Y ₂ O ₃ transparent ceramics. Optical Materials, 2010, 32, 1333-1336.	3.6	31
28	Efficient sensitization of Yb ³⁺ emission by Nd ³⁺ in Y ₂ O ₃ transparent ceramics and the prospect for high-energy Yb lasers. Optics Letters, 2009, 34, 2141.	3.3	18