Eugen V Osiac

List of Publications by Year
in descending order

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43 papers	760 citations	566801 15 h-index	525886 27 g-index
43 all docs	43 docs citations	43 times ranked	656 citing authors

#	Article	IF	Citations
1	Diode pumping of a continuous-wave Pr^3+-doped LiYF_4 laser. Optics Letters, 2004, 29, 2638.	1.7	155
2	Advances in up-conversion lasers based on Er3+ and Pr3+. Optical Materials, 2004, 26, 365-374.	1.7	93
3	Orange and red upconversion laser pumped by an avalanche mechanism in Pr3+, Yb3+:BaY2F8. Applied Physics Letters, 2003, 82, 3832-3834.	1.5	59
4	Emission and excitation characteristics and internal quantum efficiencies of vacuum-ultraviolet excitedPr3+-doped fluoride compounds. Physical Review B, 2005, 71, .	1.1	43
5	The nature of nonequivalent Nd3+ centers in CNGG and CLNGG. Optical Materials, 2001, 16, 403-411.	1.7	41
6	Optical coherence tomography and Doppler optical coherence tomography in the gastrointestinal tract. World Journal of Gastroenterology, 2011, 17, 15.	1.4	33
7	Avalanche-like mechanisms and up-conversion processes under infrared pumping in Ho3+, Yb3+:YAlO3. Journal of Luminescence, 2001, 94-95, 289-292.	1.5	31
8	Upconversion-induced blue, green and red emission in Ho3+:BaY2F8. Journal of Alloys and Compounds, 2001, 323-324, 283-287.	2.8	30
9	Upconversion emission of RE3+ in Sc2O3 ceramic under 800nm pumping. Optical Materials, 2009, 31, 744-749.	1.7	27
10	Evaluation of the upconversion mechanisms inHo3+-doped crystals: Experiment and theoretical modeling. Physical Review B, 2002, 65, .	1.1	25
11	Spectroscopic characterisation of the upconversion avalanche mechanism in Pr3+,Yb3+:BaY2F8. Optical Materials, 2003, 24, 537-545.	1.7	25
12	Spectral and dynamical effects of octahedral impurities on in garnets. Journal of Physics Condensed Matter, 1998, 10, 9701-9710.	0.7	22
13	Quantum efficiency of 1S0 and 3P0,1 levels of Pr3+ doped YF3. Chemical Physics, 2005, 310, 139-144.	0.9	21
14	JAK/STAT pathway in pathology of rheumatoid arthritis (Review). Experimental and Therapeutic Medicine, 2020, 20, 3498-3503.	0.8	20
15	Optical pump-probe processes in Nd^3+-doped KPb2Br5, RbPb2Br5, and KPb2Cl5. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2610.	0.9	17
16	Optical coherence tomography assessment of gingival epithelium inflammatory status in periodontal â€" Systemic affected patients. Annals of Anatomy, 2018, 219, 51-56.	1.0	16
17	Energy transfer-driven infrared emission processes in rare earth-doped Sc2O3 ceramics. Journal of Luminescence, 2009, 129, 1862-1865.	1.5	12
18	Excited state dynamics in sensitized photon avalanche processes. Journal of Luminescence, 1998, 76-77, 441-446.	1.5	11

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19	Green upconverted emission by infrared pump in Ho3+-doped YAlO3. Journal of Alloys and Compounds, 2002, 341, 263-266.	2.8	11
20	Roles of Microglial Ion Channel in Neurodegenerative Diseases. Journal of Clinical Medicine, 2021, 10, 1239.	1.0	10
21	Optical coherence tomography investigation of ischemic stroke inside a rodent model. Romanian Journal of Morphology and Embryology, 2014, 55, 767-72.	0.4	9
22	Phase-sensitive detection of excited-state absorption transitions in Yb3+-codoped, Ho3+-doped YLiF4. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 323.	0.9	8
23	Optical coherence tomography applications in tooth wear diagnosis. Romanian Journal of Morphology and Embryology, 2017, 58, 99-106.	0.4	8
24	Optical coherence tomography as a promising imaging tool for brain investigations. Romanian Journal of Morphology and Embryology, 2014, 55, 507-12.	0.4	6
25	Optical coherence tomography microscopy in experimental traumatic brain injury. Microscopy Research and Technique, 2021, 84, 422-431.	1.2	5
26	Simultaneous dual-wavelength operation at 1.06 and 1.34 Î¼m in Nd-vanadate laser crystals. Laser Physics, 2012, 22, 866-871.	0.6	4
27	Evaluation Through the Optical Coherence Tomography Analysis of the Influence of Non-Alcoholic Fatty Liver Disease on the Gingival Inflammation in Periodontal Patients. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2021, Volume 14, 2935-2942.	1.1	3
28	Use of optical coherence tomography in orthodontics. Experimental and Therapeutic Medicine, 2021, 22, 1424.	0.8	3
29	Modifications of the Dental Hard Tissues in the Cervical Area of Occlusally Overloaded Teeth Identified Using Optical Coherence Tomography. Medicina (Lithuania), 2022, 58, 702.	0.8	3
30	Spectroscopy and energy transfer characteristics of Nd3+in CNGG. , 2001, 4430, 62.		2
31	Pump wavelengths for an Er:YLiF4 green-emitting laser. Optical Materials, 2007, 30, 181-183.	1.7	2
32	Applications of Optical Coherence Tomography in the Diagnosis of Enamel Defects. Diagnostics, 2022, 12, 636.	1.3	2
33	Heterogeneity in the Number of Astrocytes in the Central Nervous System after Peritonitis. Current Health Sciences Journal, 2021, 47, 164-169.	0.2	2
34	OCT Application in Direct Dental Restorations Marginal Fit Evaluation. Revista De Chimie (discontinued), 2019, 70, 1439-1444.	0.2	1
35	Excitation upconversion by sensitized photon avalanche. , 1998, , .		0
36	Influence of cross-relaxation parameter on the sensitized photon avalanche. , 2000, , .		0

#	Article	IF	Citations
37	Growth and spectral characteristics of Nd3+in calcium lithium niobium gallium garnet (CLNGG) crystals. , 2000, , .		0
38	Optical phonon effects on linewidth of several laser active ions in YAG. , 2000, 4068, 232.		0
39	Pump distribution effects on photon avalanche in fiber lasers. , 1998, , .		0
40	OCT aspects of dental hard tissue changes induced by excessive occlusal forces. , 2018, , .		0
41	OCT investigation of dental lesions. , 2018, , .		0
42	Osseointegration Evaluation of Two Socket Preservation Materials in Small Diameter Bone Cavities An in vivo lab rats study. Revista De Chimie (discontinued), 2018, 69, 2904-2909.	0.2	0
43	Different Age Related Neurological and Cardiac Effects of Verapamil on a Transgenic Mouse Model of Alzheimer's Disease. Current Health Sciences Journal, 2021, 47, 263-269.	0.2	0