

Lev Nagli

List of Publications by Year in descending order

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1,287
citations

430874

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33
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72
all docs

72
docs citations

72
times ranked

1071
citing authors

#	ARTICLE	IF	CITATIONS
1	Hanle effect in Ti Laser-Induced Plasma Lasers. Optics Communications, 2022, 517, 128292.	2.1	1
2	Polarization effects in laser-induced plasma lasers based on elements from the 13th group. Journal of Applied Physics, 2021, 129, .	2.5	6
3	Atomic and molecular emission of beryllium by LIBS. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 182, 106233.	2.9	7
4	Effect of crater volume on laser-induced plasma lasers and Laser-Induced Breakdown Spectroscopy intensity. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 183, 106246.	2.9	7
5	Review on recent advances in analytical applications of molecular emission and modelling. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 173, 105989.	2.9	22
6	Halogen detection with molecular laser induced fluorescence. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 166, 105813.	2.9	12
7	Laser-induced breakdown spectroscopy of BaF2-Tm3+. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 164, 105767.	2.9	2
8	Polarization of the laser induced plasma lasers. Optics Communications, 2019, 447, 51-54.	2.1	8
9	Laser-induced breakdown spectroscopy of Br and I molecules with alkali-earth elements. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 157, 47-52.	2.9	15
10	Third harmonic generation in double-pulse laser induced air plasma. Optics Communications, 2019, 443, 63-68.	2.1	2
11	Cascade generation in Al laser induced plasma. Optics Communications, 2018, 415, 127-129.	2.1	8
12	Laser-induced time resolved luminescence of natural sylvite KCl. Journal of Luminescence, 2018, 195, 430-434.	3.1	0
13	Stimulated emission in aluminum laser-induced plasma: kinetic model of population inversion. Applied Optics, 2017, 56, 695.	2.1	12
14	Stimulated emission in aluminum laser-induced plasma: an experimental study. Applied Optics, 2017, 56, 3699.	2.1	11
15	Stimulated emission and lasing in laser-induced plasma plume. Optics Communications, 2016, 378, 41-48.	2.1	19
16	Combining Laser-Induced Breakdown Spectroscopy with Molecular Laser-Induced Fluorescence. Applied Spectroscopy, 2016, 70, 585-592.	2.2	27
17	Boron- and iron-bearing molecules in laser-induced plasma. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 110, 56-62.	2.9	15
18	Lasing effects in a laser-induced plasma plume. Optics Communications, 2015, 354, 330-332.	2.1	16

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19	Industrial Online Raw Materials Analyzer Based on Laser-Induced Breakdown Spectroscopy. <i>Applied Spectroscopy</i> , 2014, 68, 1004-1015.	2.2	39
20	Elemental analysis of halogens using molecular emission by laser-induced breakdown spectroscopy in air. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 98, 39-47.	2.9	87
21	Laser-induced breakdown spectroscopy of Zr in short ultraviolet wavelength range. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 85, 93-99.	2.9	12
22	Fraunhofer-type absorption line splitting and polarization in confocal double-pulse laser induced plasma. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 88, 127-135.	2.9	10
23	Laser-induced time resolved luminescence of natural grossular $\text{Ca}_3\text{Al}_2(\text{SiO}_4)_3$. <i>Journal of Luminescence</i> , 2013, 137, 43-53.	3.1	10
24	Laser-induced time-resolved luminescence of natural margarosanite $\text{Pb}(\text{Ca}, \text{Mn})_2\text{Si}_3\text{O}_9$, swedenborgite $\text{NaBe}_4\text{SbO}_7$ and walstromite $\text{BaCa}_2\text{Si}_3\text{O}_9$. <i>European Journal of Mineralogy</i> , 2013, 25, 71-77.	1.3	11
25	Laser-induced time-resolved luminescence of natural sillimanite Al_2SiO_5 and synthetic Al_2SiO_5 activated by chromium. <i>Journal of Luminescence</i> , 2012, 132, 2855-2862.	3.1	13
26	Configurational coordinate diagram of Ni^{2+} doped silver halide crystals, as determined by optical and luminescence measurements. <i>Journal of Luminescence</i> , 2012, 132, 2072-2076.	3.1	3
27	Plasma induced luminescence (PIL). <i>Optical Materials</i> , 2011, 34, 368-375.	3.6	16
28	Comparison of single and double-pulse excitation during the earliest stage of laser induced plasma. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3207-3216.	3.7	16
29	Doubly ionized ion emission in laser-induced breakdown spectroscopy in air. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3229-3237.	3.7	16
30	Laser-induced time-resolved luminescence of orange kyanite Al_2SiO_5 . <i>Optical Materials</i> , 2011, 33, 1476-1480.	3.6	15
31	Optical and luminescence properties of $\text{Co}:\text{AgClO}_2\text{Br}_{0.8}$ crystals and their potential applications as gain media for middle-infrared lasers. <i>Applied Physics Letters</i> , 2011, 99, 201111.	3.3	9
32	Laser-induced time-resolved luminescence of tugtupite, sodalite and hackmanite. <i>Physics and Chemistry of Minerals</i> , 2009, 36, 127-141.	0.8	28
33	Narrow gated Raman and luminescence of explosives. <i>Journal of Luminescence</i> , 2009, 129, 979-983.	3.1	27
34	Laser-induced breakdown spectroscopy for on-line sulfur analyses of minerals in ambient conditions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 1098-1104.	2.9	67
35	Gated Raman spectroscopy: potential for fundamental and applied mineralogy. <i>European Journal of Mineralogy</i> , 2009, 21, 33-42.	1.3	13
36	Raman spectroscopy of rare earth doped silver halide crystals. <i>Applied Physics Letters</i> , 2009, 94, 231907.	3.3	11

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37	Middle infrared luminescence of Tb ³⁺ in silver halide crystals and fibers. <i>Journal of Luminescence</i> , 2008, 128, 1323-1330.	3.1	8
38	UV gated Raman spectroscopy for standoff detection of explosives. <i>Optical Materials</i> , 2008, 30, 1739-1746.	3.6	149
39	Absolute Raman cross-sections of some explosives: Trend to UV. <i>Optical Materials</i> , 2008, 30, 1747-1754.	3.6	68
40	A Scanning Near-Field Infrared Microscope Based on AgClBr Fiber Probes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 19-28.	2.9	2
41	The nature of unusual luminescence in natural calcite CaCO ₃ . <i>American Mineralogist</i> , 2008, 93, 158-167.	1.9	26
42	A scanning near-field middle-infrared microscope for the study of objects submerged in water. <i>Applied Physics Letters</i> , 2008, 92, 104104.	3.3	8
43	Middle-infrared luminescence of Nd ions in silver halide crystals. <i>Journal of Luminescence</i> , 2007, 126, 541-546.	3.1	10
44	Optical properties of Pr ions in silver halide crystals in the middle infrared spectral range. <i>Optical Materials</i> , 2006, 28, 147-151.	3.6	7
45	Development of tapered silver-halide fiber tips for a scanning near-field microscope operating in the middle infrared. <i>Review of Scientific Instruments</i> , 2006, 77, 126103.	1.3	10
46	The nature of red luminescence of natural benitoite BaTiSi ₃ O ₉ . <i>Mineralogy and Petrology</i> , 2005, 85, 33-44.	1.1	5
47	Scanning near field infrared radiometry for thermal imaging of infrared emitters with subwavelength resolution. <i>Applied Physics Letters</i> , 2005, 87, 101109.	3.3	14
48	Middle-infrared luminescence of praseodymium ions in silver halide crystals and fibers. <i>Optics Letters</i> , 2005, 30, 1831.	3.3	14
49	Scanning near-field infrared microscopy based on tapered silver-halide probes. <i>Applied Physics Letters</i> , 2004, 84, 637-639.	3.3	27
50	Collection-mode near-field scanning infrared microscope based on silver halide probes. <i>Applied Physics Letters</i> , 2004, 85, 5538-5540.	3.3	6
51	The nature of blue luminescence from natural benitoite BaTiSi ₃ O ₉ . <i>Physics and Chemistry of Minerals</i> , 2004, 31, 365.	0.8	41
52	Laser-induced time-resolved luminescence of natural titanite CaTiOSiO ₄ . <i>Optical Materials</i> , 2003, 24, 231-241.	3.6	14
53	Diffusion of Pr ³⁺ ions in silver halide crystals. <i>Optical Materials</i> , 2001, 16, 243-248.	3.6	3
54	IR Lasers and Application Systems for Myringotomy. <i>Lasers in Medical Science</i> , 2000, 15, 162-168.	2.1	1

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55	Ordered bundles of infrared-transmitting AgClBr fibers: optical characterization of individual fibers. Optics Letters, 2000, 25, 1237.	3.3	25
56	Luminescence method for the study of Nd ³⁺ ions diffusion in AgBr crystals. Journal of Applied Physics, 1999, 85, 2114-2118.	2.5	5
57	Rare earth ion diffusion in AgBr crystals. Optical Materials, 1999, 13, 89-95.	3.6	2
58	Absorption spectrum of silver bromide crystals and fibers in the 900-1100 nm wavelength range. Journal of Applied Physics, 1997, 81, 1612-1613.	2.5	6
59	Silver-halide fiber tip as a beam homogenizer for infrared hollow waveguides. Optics Letters, 1997, 22, 1308.	3.3	20
60	The luminescence properties of Dy-doped high silicate glass. Journal of Non-Crystalline Solids, 1997, 217, 208-214.	3.1	74
61	The visible and infrared luminescence of activated silver bromide crystals. Optical Materials, 1997, 8, 21-29.	3.6	6
62	Medical applications of infrared transmitting silver halide fibers. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 872-879.	2.9	36
63	Luminescence kinetics of iodine-doped silver bromide crystals: concentration and excitation intensity dependences. Journal of Physics Condensed Matter, 1996, 8, 6445-6456.	1.8	2
64	IR luminescence of Ni-doped silver bromide crystals. Journal of Luminescence, 1995, 65, 41-44.	3.1	10
65	Defects and luminescence in pure and i-doped AgBr crystals. Radiation Effects and Defects in Solids, 1995, 135, 301-303.	1.2	0
66	Infrared luminescence of neodymium-doped silver bromide crystals. Optics Letters, 1995, 20, 2417.	3.3	10
67	Luminescence of Bi ₄ Ge ₃ O ₁₂ (BGO) crystals under KrF and XeF laser excitation. Journal of Luminescence, 1993, 55, 139-143.	3.1	4
68	Optical properties of mixed silver halide crystals and fibers. Journal of Applied Physics, 1993, 74, 5737-5741.	2.5	42
69	CO ₂ laser power transmission and laser induced breakdown in AgClxBr _{1-x} crystals, polycrystals, and fibers. Applied Physics Letters, 1992, 61, 1624-1625.	3.3	5
70	On the Reasons of the Off-Centre Position of Excited Ga ⁺ and In ⁺ Ions in Alkali Halides. Physica Status Solidi (B): Basic Research, 1990, 162, K91.	1.5	8
71	Intraband luminescence of CsI crystal. Solid State Communications, 1989, 71, 859-862.	1.9	26
72	In ⁺ Centres in a KCl-In Crystal. Physica Status Solidi (B): Basic Research, 1976, 73, 427-430.	1.5	0