

Pedro G Boj

List of Publications by Year in descending order

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68
papers

1,468
citations

304368
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360668
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docs citations

68
times ranked

1229
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon-bridged oligo(p-phenylenevinylene)s for photostable and broadly tunable, solution-processable thin film organic lasers. <i>Nature Communications</i> , 2015, 6, 8458.	5.8	105
2	Effect of Structural Modifications in the Spectral and Laser Properties of Perylenediimide Derivatives. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13595-13605.	1.5	67
3	Stimulated Resonance Raman Scattering and Laser Oscillation in Highly Emissive Distyrylbenzene-Based Molecular Crystals. <i>Advanced Materials</i> , 2012, 24, 6473-6478.	11.1	62
4	Solution-processed nanographene distributed feedback lasers. <i>Nature Communications</i> , 2019, 10, 3327.	5.8	59
5	1,7-Bis(4-substituted Perylenediimide Derivative with Outstanding Laser Performance. <i>Advanced Optical Materials</i> , 2013, 1, 933-938.	3.6	58
6	Tuneability of amplified spontaneous emission through control of the thickness in organic-based waveguides. <i>Journal of Applied Physics</i> , 2005, 97, 093103.	1.1	51
7	Amplified Spontaneous Emission Properties of Semiconducting Organic Materials. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2546-2565.	1.8	50
8	Bis(aminoaryl) Carbon-Bridged Oligo(phenylenevinylene)s Expand the Limits of Electronic Couplings. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2898-2902.	7.2	50
9	Efficient organic distributed feedback lasers with imprinted active films. <i>Optics Express</i> , 2011, 19, 22443.	1.7	47
10	Improved performance of perylenediimide-based lasers. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1182-1191.	2.7	47
11	Highly photostable organic distributed feedback laser emitting at 573 nm. <i>Applied Physics Letters</i> , 2010, 97, 171104.	1.5	43
12	Film thickness and grating depth variation in organic second-order distributed feedback lasers. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	43
13	Amplified spontaneous emission in polymer films doped with a perylenediimide derivative. <i>Applied Optics</i> , 2007, 46, 3836.	2.1	40
14	An Efficient and Color-Tunable Solution-Processed Organic Thin-Film Laser with a Polymeric Top-Layer Resonator. <i>Advanced Optical Materials</i> , 2017, 5, 1700238.	3.6	39
15	Concentration dependence of amplified spontaneous emission in organic-based waveguides. <i>Organic Electronics</i> , 2006, 7, 319-329.	1.4	38
16	Thickness dependence of amplified spontaneous emission in low-absorbing organic waveguides. <i>Applied Optics</i> , 2012, 51, 3287.	0.9	30
17	Distributed feedback lasers based on perylenediimide dyes for label-free refractive index sensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1368-1375.	4.0	29
18	Organic distributed feedback laser for label-free biosensing of ErbB2 protein biomarker. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 261-265.	4.0	28

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19	Blue surface-emitting distributed feedback lasers based on TPD-doped films. <i>Applied Optics</i> , 2010, 49, 463.	2.1	25
20	Influence of the excitation area on the thresholds of organic second-order distributed feedback lasers. <i>Applied Physics Letters</i> , 2012, 101, 223303.	1.5	25
21	Near-Infrared Lasing in Four-Zigzag Edged Nanographenes by 1D versus 2D Electronic Conjugation. <i>Advanced Functional Materials</i> , 2021, 31, 2105073.	7.8	25
22	Perylene-Fused, Aggregation-Free Polycyclic Aromatic Hydrocarbons for Solution-Processed Distributed Feedback Lasers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14927-14934.	7.2	24
23	Influence of Blending Ratio and Polymer Matrix on the Lasing Properties of Perylenediimide Dyes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24896-24906.	1.5	23
24	Design, synthesis and amplified spontaneous emission of 1,2,5-benzothiadiazole derivatives. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9996-10007.	2.7	21
25	Synthesis and Electrochemical and Photorefractive Properties of New Trinitrofluorenone-C60 Photosensitizers. <i>Chemistry of Materials</i> , 2004, 16, 5021-5026.	3.2	20
26	Concentration dependence of amplified spontaneous emission in two oligo-(p-phenylenevinylene) derivatives. <i>Journal of Applied Physics</i> , 2005, 97, 063522.	1.1	20
27	Effect of structural modifications in the laser properties of polymer films doped with perylenebisimide derivatives. <i>Synthetic Metals</i> , 2009, 159, 2293-2295.	2.1	20
28	Carbon-Bridged Phenylenevinylene Polymer for High-Performance Solution-Processed Distributed Feedback Lasers. <i>Advanced Optical Materials</i> , 2018, 6, 1800069.	3.6	20
29	Controlling the emission properties of solution-processed organic distributed feedback lasers through resonator design. <i>Scientific Reports</i> , 2019, 9, 11159.	1.6	20
30	Perylenediimide-based distributed feedback lasers with holographic relief gratings on dichromated gelatine. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	19
31	Dichromated gelatin holograms derived from Agfa 8E75 HD plates. <i>Applied Optics</i> , 1984, 23, 196.	2.1	18
32	Broadband reflection holograms in dichromated gelatin. <i>Applied Optics</i> , 1992, 31, 3302.	2.1	17
33	Effect of ring fusion on the amplified spontaneous emission properties of oligothiophenes. <i>Journal of Materials Chemistry</i> , 2009, 19, 6556.	6.7	17
34	Determination of the glass transition temperature of photorefractive polymer composites from photoconductivity measurements. <i>Applied Physics Letters</i> , 2008, 92, 041101.	1.5	16
35	Dual Amplified Spontaneous Emission and Lasing from Nanographene Films. <i>Nanomaterials</i> , 2020, 10, 1525.	1.9	14
36	Line-focusing holographic mirrors for solar ultraviolet energy concentration. <i>Applied Optics</i> , 1997, 36, 3689.	2.1	13

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37	Distributed feedback lasers based on dichromated poly(vinyl alcohol) reusable surface-relief gratings. Optical Materials Express, 2014, 4, 733.	1.6	13
38	Diffraction gratings in dry developed dichromated gelatin films. Thin Solid Films, 1998, 317, 343-346.	0.8	12
39	Bis(aminoaryl) Carbon-Bridged Oligo(phenylenevinylene)s Expand the Limits of Electronic Couplings. Angewandte Chemie, 2017, 129, 2944-2948.	1.6	12
40	Blue and Deep-Blue-Emitting Organic Lasers with Top-Layer Distributed Feedback Resonators. Advanced Optical Materials, 2020, 8, 2001153.	3.6	12
41	Excited states engineering enables efficient near-infrared lasing in nanographenes. Materials Horizons, 2022, 9, 393-402.	6.4	12
42	TPD-BASED BLUE ORGANIC LASERS. Journal of Nonlinear Optical Physics and Materials, 2004, 13, 621-626.	1.1	11
43	Photorefractive properties of an unsensitized polymer composite based on a dicyanostyrene derivative as nonlinear optical chromophore. Applied Physics Letters, 2005, 87, 261111.	1.5	11
44	Enhanced Photorefractivity of Poly(<i>N</i> -vinylcarbazole)-Based Composites through Electric-Field Treatments and Ionic Liquid Doping. Advanced Functional Materials, 2009, 19, 428-437.	7.8	11
45	Amplified Spontaneous Emission in Pentathienoacene Dioxides by Direct Optical Pump and by Energy Transfer: Correlation with Photophysical Parameters. Advanced Optical Materials, 2013, 1, 588-599.	3.6	11
46	Organic distributed feedback laser to monitor solvent extraction upon thermal annealing in solution-processed polymer films. Sensors and Actuators B: Chemical, 2016, 232, 605-610.	4.0	10
47	Display of ordinary transmission holograms with a white light source. Applied Optics, 1986, 25, 4146.	2.1	9
48	Kinetically Protected Carbon-Bridged Oligo(<i>p</i> -phenylenevinylene) Derivatives for Blue Color Amplified Spontaneous Emission. Bulletin of the Chemical Society of Japan, 2020, 93, 751-758.	2.0	9
49	Simultaneous Determination of Refractive Index and Thickness of Submicron Optical Polymer Films from Transmission Spectra. Polymers, 2021, 13, 2545.	2.0	9
50	Peri-Acenoacene for Solution Processed Distributed Feedback Laser: The Effect of 1,2-Oxaborine Doping. Advanced Optical Materials, 2022, 10, .	3.6	9
51	Photorefractive polymer composites using a trinitrofluorenone-C60 dyad with a conformationally flexible linker as photosensitizer. Synthetic Metals, 2007, 157, 1064-1070.	2.1	8
52	Sub-400-nm film thickness determination from transmission spectra in organic distributed feedback lasers fabrication. Thin Solid Films, 2019, 692, 137580.	0.8	8
53	Optimization of the Laser Properties of Polymer Films Doped with N,N'-Bis(3-methylphenyl)-N,N'-diphenylbenzidine. Materials, 2009, 2, 1288-1304.	1.3	7
54	Effect of Substituents at Imide Positions on the Laser Performance of 1,7-Bay-Substituted Perylenediimide Dyes. Journal of Physical Chemistry C, 2021, 125, 12277-12288.	1.5	7

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55	Highly photostable solid-state organic distributed feedback laser fabricated via thermal nanoimprint lithography. <i>Microelectronic Engineering</i> , 2010, 87, 1428-1430.	1.1	6
56	Two-dimensional distributed feedback lasers with thermally-nanoimprinted perylenediimide-containing films. <i>Optical Materials Express</i> , 2017, 7, 1295.	1.6	6
57	Peryleneâ€Fused, Aggregationâ€Free Polycyclic Aromatic Hydrocarbons for Solutionâ€Processed Distributed Feedback Lasers. <i>Angewandte Chemie</i> , 2020, 132, 15037-15044.	1.6	6
58	Thermal-nanoimprint lithography for perylenediimide-based distributed feedback laser fabrication. <i>Microelectronic Engineering</i> , 2014, 114, 52-56.	1.1	4
59	N,Nâ€2-Bis(3-methylphenyl)-N,Nâ€2-diphenylbenzidine Based Distributed Feedback Lasers with Holographically Fabricated Polymeric Resonators. <i>Polymers</i> , 2021, 13, 3843.	2.0	4
60	Double-layer method for increasing the bandwidth of UV spectrally responsive holograms in dichromated gelatin. <i>Applied Optics</i> , 1994, 33, 2917.	2.1	3
61	Improved Amplified Spontaneous Emission of Dyeâ€Doped Functionalized Mesostructured Silica Waveguide Films. <i>Advanced Optical Materials</i> , 2015, 3, 1454-1461.	3.6	3
62	Solution-processable, photo-stable, low-threshold, and broadly tunable thin film organic lasers based on novel high-performing laser dyes. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
63	Unveiling photophysical and photonic phenomena by means of optical gain measurements in waveguides and solutions. <i>Optics and Laser Technology</i> , 2021, 136, 106766.	2.2	3
64	Amplified spontaneous emission in TPD-based waveguides: thickness and TPD concentration dependence.. , 2006, , .		2
65	Critical Temperatures in the Photorefractive Polymer Composite Behavior. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 383-387.	2.1	2
66	Second-order distributed feedback lasers based on films containing perylenediimide derivatives. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
67	Violet-emitting distributed-feedback laser using a naphtho[2,1- <i>b</i> :6,5- <i>b'</i>]difuran derivative. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17287-17290.	2.7	1
68	Label-free sensors based on perylenediimide-doped polystyrene distributed feedback lasers. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0