

Pedro G Boj

List of Publications by Year in descending order

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68
papers

1,468
citations

304743

22
h-index

361022

35
g-index

68
all docs

68
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.	12.8	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.	3.1	67
3	Stimulated Resonance Raman Scattering and Laser Oscillation in Highly Emissive Distyrylbenzene-Based Molecular Crystals. <i>Advanced Materials</i> , 2012, 24, 6473-6478.	21.0	62
4	Solution-processed nanographene distributed feedback lasers. <i>Nature Communications</i> , 2019, 10, 3327.	12.8	59
5	1,7-Bay-Substituted Perylenediimide Derivative with Outstanding Laser Performance. <i>Advanced Optical Materials</i> , 2013, 1, 933-938.	7.3	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.	2.5	51
7	Amplified Spontaneous Emission Properties of Semiconducting Organic Materials. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2546-2565.	4.1	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.	13.8	50
9	Efficient organic distributed feedback lasers with imprinted active films. <i>Optics Express</i> , 2011, 19, 22443.	3.4	47
10	Improved performance of perylenediimide-based lasers. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1182-1191.	5.5	47
11	Highly photostable organic distributed feedback laser emitting at 573 nm. <i>Applied Physics Letters</i> , 2010, 97, 171104.	3.3	43
12	Film thickness and grating depth variation in organic second-order distributed feedback lasers. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	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.	7.3	39
15	Concentration dependence of amplified spontaneous emission in organic-based waveguides. <i>Organic Electronics</i> , 2006, 7, 319-329.	2.6	38
16	Thickness dependence of amplified spontaneous emission in low-absorbing organic waveguides. <i>Applied Optics</i> , 2012, 51, 3287.	1.8	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.	7.8	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.	7.8	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.	3.3	25
21	Near-Infrared Lasing in Four-Zigzag Edged Nanographenes by 1D versus 2D Electronic Conjugation. <i>Advanced Functional Materials</i> , 2021, 31, 2105073.	14.9	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.	13.8	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.	3.1	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.	5.5	21
25	Synthesis and Electrochemical and Photorefractive Properties of New Trinitrofluorene-C60 Photosensitizers. <i>Chemistry of Materials</i> , 2004, 16, 5021-5026.	6.7	20
26	Concentration dependence of amplified spontaneous emission in two oligo-(p-phenylenevinylene) derivatives. <i>Journal of Applied Physics</i> , 2005, 97, 063522.	2.5	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.	3.9	20
28	Carbon-Bridged Phenylenevinylene Polymer for High-Performance Solution-Processed Distributed Feedback Lasers. <i>Advanced Optical Materials</i> , 2018, 6, 1800069.	7.3	20
29	Controlling the emission properties of solution-processed organic distributed feedback lasers through resonator design. <i>Scientific Reports</i> , 2019, 9, 11159.	3.3	20
30	Perylenediimide-based distributed feedback lasers with holographic relief gratings on dichromated gelatine. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	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.	3.3	16
35	Dual Amplified Spontaneous Emission and Lasing from Nanographene Films. <i>Nanomaterials</i> , 2020, 10, 1525.	4.1	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. <i>Optical Materials Express</i> , 2014, 4, 733.	3.0	13
38	Diffraction gratings in dry developed dichromated gelatin films. <i>Thin Solid Films</i> , 1998, 317, 343-346.	1.8	12
39	Bis(aminoaryl) Carbon-Bridged Oligo(phenylenevinylene)s Expand the Limits of Electronic Couplings. <i>Angewandte Chemie</i> , 2017, 129, 2944-2948.	2.0	12
40	Blue and Deep-Blue-Emitting Organic Lasers with Top-Layer Distributed Feedback Resonators. <i>Advanced Optical Materials</i> , 2020, 8, 2001153.	7.3	12
41	Excited states engineering enables efficient near-infrared lasing in nanographenes. <i>Materials Horizons</i> , 2022, 9, 393-402.	12.2	12
42	TPD-BASED BLUE ORGANIC LASERS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2004, 13, 621-626.	1.8	11
43	Photorefractive properties of an unsensitized polymer composite based on a dicyanostyrene derivative as nonlinear optical chromophore. <i>Applied Physics Letters</i> , 2005, 87, 261111.	3.3	11
44	Enhanced Photorefractivity of Poly(<i>p</i> -vinylcarbazole)-Based Composites through Electric Field Treatments and Ionic Liquid Doping. <i>Advanced Functional Materials</i> , 2009, 19, 428-437.	14.9	11
45	Amplified Spontaneous Emission in Pentathienoacene Dioxides by Direct Optical Pump and by Energy Transfer: Correlation with Photophysical Parameters. <i>Advanced Optical Materials</i> , 2013, 1, 588-599.	7.3	11
46	Organic distributed feedback laser to monitor solvent extraction upon thermal annealing in solution-processed polymer films. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 605-610.	7.8	10
47	Display of ordinary transmission holograms with a white light source. <i>Applied Optics</i> , 1986, 25, 4146.	2.1	9
48	Kinetically Protected Carbon-Bridged Oligo(<i>p</i> -phenylenevinylene) Derivatives for Blue Color Amplified Spontaneous Emission. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 751-758.	3.2	9
49	Simultaneous Determination of Refractive Index and Thickness of Submicron Optical Polymer Films from Transmission Spectra. <i>Polymers</i> , 2021, 13, 2545.	4.5	9
50	Peri-Acenoacene for Solution Processed Distributed Feedback Laser: The Effect of 1,2-Oxaborine Doping. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	9
51	Photorefractive polymer composites using a trinitrofluorenone-C60 dyad with a conformationally flexible linker as photosensitizer. <i>Synthetic Metals</i> , 2007, 157, 1064-1070.	3.9	8
52	Sub-400-nm film thickness determination from transmission spectra in organic distributed feedback lasers fabrication. <i>Thin Solid Films</i> , 2019, 692, 137580.	1.8	8
53	Optimization of the Laser Properties of Polymer Films Doped with N,N'-Bis(3-methylphenyl)-N,N'-diphenylbenzidine. <i>Materials</i> , 2009, 2, 1288-1304.	2.9	7
54	Effect of Substituents at Imide Positions on the Laser Performance of 1,7-Bay-Substituted Perylene-diimide Dyes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12277-12288.	3.1	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.	2.4	6
56	Two-dimensional distributed feedback lasers with thermally-nanoimprinted peryleneimide-containing films. <i>Optical Materials Express</i> , 2017, 7, 1295.	3.0	6
57	Perylene-Fused, Aggregation-Free Polycyclic Aromatic Hydrocarbons for Solution-Processed Distributed Feedback Lasers. <i>Angewandte Chemie</i> , 2020, 132, 15037-15044.	2.0	6
58	Thermal-nanoimprint lithography for peryleneimide-based distributed feedback laser fabrication. <i>Microelectronic Engineering</i> , 2014, 114, 52-56.	2.4	4
59	N,N'-Bis(3-methylphenyl)-N,N'-diphenylbenzidine Based Distributed Feedback Lasers with Holographically Fabricated Polymeric Resonators. <i>Polymers</i> , 2021, 13, 3843.	4.5	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 Dye-Doped Functionalized Mesoporous Silica Waveguide Films. <i>Advanced Optical Materials</i> , 2015, 3, 1454-1461.	7.3	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.	4.6	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.	4.6	2
66	Second-order distributed feedback lasers based on films containing peryleneimide derivatives. <i>Proceedings of SPIE</i> , 2010, .	0.8	1
67	Violet-emitting distributed-feedback laser using a naphtho[2,1-b:6,5-b']difuran derivative. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17287-17290.	5.5	1
68	Label-free sensors based on peryleneimide-doped polystyrene distributed feedback lasers. <i>Proceedings of SPIE</i> , 2015, .	0.8	0