

# MarÃ-a Angeles DÃ-az-GarcÃ-a

## List of Publications by Year in descending order

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120  
papers

5,723  
citations

94433

37  
h-index

76900

74  
g-index

121  
all docs

121  
docs citations

121  
times ranked

4168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Semiconducting Polymers: A New Class of Solid-State Laser Materials. <i>Science</i> , 1996, 273, 1833-1836.	12.6	837
2	New Developments in the Photonic Applications of Conjugated Polymers. <i>Accounts of Chemical Research</i> , 1997, 30, 430-436.	15.6	485
3	Laser emission from solutions and films containing semiconducting polymer and titanium dioxide nanocrystals. <i>Chemical Physics Letters</i> , 1996, 256, 424-430.	2.6	295
4	Amplified spontaneous emission from photopumped films of a conjugated polymer. <i>Physical Review B</i> , 1998, 58, 7035-7039.	3.2	292
5	Synthesis, Characterization, Optical Spectroscopic, Electronic Structure, and Second-Order Nonlinear Optical (NLO) Properties of a Novel Class of Donor-Acceptor Bis(salicylaldiminato)nickel(II) Schiff Base NLO Chromophores. <i>Journal of the American Chemical Society</i> , 1997, 119, 9550-9557.	13.7	273
6	Semiconducting polymer distributed feedback lasers. <i>Applied Physics Letters</i> , 1998, 72, 1536-1538.	3.3	238
7	High-speed photorefractive polymer composites. <i>Applied Physics Letters</i> , 1998, 73, 1490-1492.	3.3	186
8	Plastic lasers: Semiconducting polymers as a new class of solid-state laser materials. <i>Synthetic Metals</i> , 1997, 84, 455-462.	3.9	148
9	Subphthalocyanines: A Novel Targets for Remarkable Second-Order Optical Nonlinearities. <i>Journal of the American Chemical Society</i> , 1996, 118, 2746-2747.	13.7	146
10	Photorefractive Properties of Poly(N-vinyl carbazole)-Based Composites for High-Speed Applications. <i>Chemistry of Materials</i> , 1999, 11, 1784-1791.	6.7	129
11	Microstructure of thin films of photoluminescent semiconducting polymers. <i>Polymer</i> , 1998, 39, 2299-2304.	3.8	124
12	Third-Order Nonlinear Optical Properties of Soluble Octasubstituted Metallophthalocyanines. <i>The Journal of Physical Chemistry</i> , 1994, 98, 8761-8764.	2.9	120
13	Plastic lasers: Comparison of gain narrowing with a soluble semiconducting polymer in waveguides and microcavities. <i>Applied Physics Letters</i> , 1997, 70, 3191-3193.	3.3	112
14	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
15	Sizable Second-Order Nonlinear Optical Response of Donor-Acceptor Bis(salicylaldiminato)nickel(II) Schiff Base Complexes. <i>Chemistry of Materials</i> , 1994, 6, 881-883.	6.7	79
16	Push-Pull Phthalocyanines: A Hammett Correlation between the Cubic Hyperpolarizability and the Donor-Acceptor Character of the Substituents. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9773-9777.	2.5	74
17	Effect of Structural Modifications in the Spectral and Laser Properties of Peryleneimide Derivatives. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13595-13605.	3.1	67
18	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

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19	Conjugated polymers as solid-state laser materials. <i>Synthetic Metals</i> , 1997, 91, 35-40.	3.9	61
20	Solution-processed nanographene distributed feedback lasers. <i>Nature Communications</i> , 2019, 10, 3327.	12.8	59
21	1,7-Bis(2,6-Dimethylphenyl)-2,9-Dimethylperylene-3,4,9,10-tetracarboxylic Diimide Derivative with Outstanding Laser Performance. <i>Advanced Optical Materials</i> , 2013, 1, 933-938.	7.3	58
22	Third Harmonic Generation Spectroscopy of Boron Subphthalocyanine. <i>The Journal of Physical Chemistry</i> , 1995, 99, 14988-14991.	2.9	54
23	Third-Order Nonlinear Optical Properties of Soluble Metalloporphyrin Hemiporphyrins. <i>The Journal of Physical Chemistry</i> , 1994, 98, 4495-4497.	2.9	51
24	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
25	Amplified Spontaneous Emission Properties of Semiconducting Organic Materials. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2546-2565.	4.1	50
26	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
27	Second harmonic generation from trinitro-substituted subphthalocyanines films: Evidence of noncentrosymmetric molecular organization. <i>Applied Physics Letters</i> , 1997, 70, 1802-1804.	3.3	47
28	Efficient organic distributed feedback lasers with imprinted active films. <i>Optics Express</i> , 2011, 19, 22443.	3.4	47
29	Improved performance of perylene diimide-based lasers. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1182-1191.	5.5	47
30	Energy transfer from organics to rare-earth complexes. <i>Applied Physics Letters</i> , 2002, 81, 3924-3926.	3.3	44
31	Highly photostable organic distributed feedback laser emitting at 573 nm. <i>Applied Physics Letters</i> , 2010, 97, 171104.	3.3	43
32	Film thickness and grating depth variation in organic second-order distributed feedback lasers. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	43
33	Dye-doped polymers for blue organic diode lasers. <i>Applied Physics Letters</i> , 2002, 80, 4486-4488.	3.3	42
34	Amplified spontaneous emission in polymer films doped with a perylene diimide derivative. <i>Applied Optics</i> , 2007, 46, 3836.	2.1	40
35	Are Electron Affinity and Ionization Potential Intrinsic Parameters to Predict the Electron or Hole Acceptor Character of Amorphous Molecular Materials?. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2445-2449.	4.6	40
36	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

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37	Concentration dependence of amplified spontaneous emission in organic-based waveguides. <i>Organic Electronics</i> , 2006, 7, 319-329.	2.6	38
38	Semiconducting polymers as materials for photonic devices. <i>Current Opinion in Solid State and Materials Science</i> , 1998, 3, 16-22.	11.5	33
39	Nonlinear optical properties of phthalocyanines and related compounds. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 652-667.	0.8	33
40	Asymmetry between Absorption and Photoluminescence Line Shapes of TPD: Spectroscopic Fingerprint of the Twisted Biphenyl Core. <i>Journal of Physical Chemistry A</i> , 2009, 113, 315-324.	2.5	33
41	Identification of two-photon states in phthalocyanines by third harmonic generation spectroscopy. <i>Chemical Physics Letters</i> , 1995, 235, 535-540.	2.6	30
42	Thickness dependence of amplified spontaneous emission in low-absorbing organic waveguides. <i>Applied Optics</i> , 2012, 51, 3287.	1.8	30
43	Cove-Edged Nanographenes with Localized Double Bonds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8113-8117.	13.8	30
44	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
45	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
46	Direct measurement of ordinary refractive index of proton exchanged LiNbO3 waveguides. <i>Optics Communications</i> , 1992, 92, 40-44.	2.1	26
47	Blue surface-emitting distributed feedback lasers based on TPD-doped films. <i>Applied Optics</i> , 2010, 49, 463.	2.1	25
48	Very Large Photoconduction Enhancement Upon Self-Assembly of a New Triindole Derivative in Solution-Processed Films. <i>Advanced Functional Materials</i> , 2011, 21, 738-745.	14.9	25
49	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
50	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
51	Index of refraction and waveguiding in thin films of a conjugated polymer which exhibits stimulated emission. <i>Synthetic Metals</i> , 1999, 102, 1091-1092.	3.9	24
52	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
53	Phthalocyanines as Efficient Sensitizers in Low- $T_g$ Hole-Conducting Photorefractive Polymer Composites. <i>Chemistry of Materials</i> , 2009, 21, 2714-2720.	6.7	23
54	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

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55	Third-order nonlinear optical susceptibilities of the Langmuir-Blodgett films of octa-substituted metallophthalocyanines. Applied Physics Letters, 1996, 69, 293-295.	3.3	22
56	The structure and energetics of TPD ground and excited states. Chemical Physics, 2007, 332, 48-54.	1.9	21
57	Design, synthesis and amplified spontaneous emission of 1,2,5-benzothiadiazole derivatives. Journal of Materials Chemistry C, 2019, 7, 9996-10007.	5.5	21
58	Nonlinear absorption of soluble octasubstituted metallophthalocyanines at 1.064 $\mu\text{m}$ . Chemical Physics Letters, 1997, 266, 86-90.	2.6	20
59	Synthesis and Electrochemical and Photorefractive Properties of New Trinitrofluorenone-C <sub>60</sub> Photosensitizers. Chemistry of Materials, 2004, 16, 5021-5026.	6.7	20
60	Concentration dependence of amplified spontaneous emission in two oligo-(p-phenylenevinylene) derivatives. Journal of Applied Physics, 2005, 97, 063522.	2.5	20
61	Effect of structural modifications in the laser properties of polymer films doped with perylenebisimide derivatives. Synthetic Metals, 2009, 159, 2293-2295.	3.9	20
62	Carbon-Bridged p-Phenylenevinylene Polymer for High-Performance Solution-Processed Distributed Feedback Lasers. Advanced Optical Materials, 2018, 6, 1800069.	7.3	20
63	Controlling the emission properties of solution-processed organic distributed feedback lasers through resonator design. Scientific Reports, 2019, 9, 11159.	3.3	20
64	Perylene diimide-based distributed feedback lasers with holographic relief gratings on dichromated gelatine. Journal of Applied Physics, 2013, 114, .	2.5	19
65	Cove-Edged Nanographenes with Localized Double Bonds. Angewandte Chemie, 2020, 132, 8190-8194.	2.0	18
66	Effect of ring fusion on the amplified spontaneous emission properties of oligothiophenes. Journal of Materials Chemistry, 2009, 19, 6556.	6.7	17
67	Determination of the glass transition temperature of photorefractive polymer composites from photoconductivity measurements. Applied Physics Letters, 2008, 92, 041101.	3.3	16
68	Plasmonic Enhancement in the Fluorescence of Organic and Biological Molecules by Photovoltaic Tweezing Assembly. Advanced Materials Technologies, 2017, 2, 1700024.	5.8	14
69	Dual Amplified Spontaneous Emission and Lasing from Nanographene Films. Nanomaterials, 2020, 10, 1525.	4.1	14
70	Stimulated emission and lasing in solid films of conjugated polymers: ultrafast photophysics and photon confinement via scattering. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1997, 355, 775-787.	3.4	13
71	Synthesis and third-order NLO properties in LB films of triazolehemiporphyrazines. Synthetic Metals, 1998, 93, 213-218.	3.9	13
72	Distributed feedback lasers based on dichromated poly(vinyl alcohol) reusable surface-relief gratings. Optical Materials Express, 2014, 4, 733.	3.0	13

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73	Blue and Deep-Blue-Emitting Organic Lasers with Top-Layer Distributed Feedback Resonators. <i>Advanced Optical Materials</i> , 2020, 8, 2001153.	7.3	12
74	Excited states engineering enables efficient near-infrared lasing in nanographenes. <i>Materials Horizons</i> , 2022, 9, 393-402.	12.2	12
75	THG from copper phthalocyanines in a sol-gel host. <i>Synthetic Metals</i> , 1996, 83, 273-276.	3.9	11
76	Macroscopic third order nonlinear optical behavior of metal-containing phthalocyanines bearing alkyl-amido functional groups. <i>Synthetic Metals</i> , 1997, 84, 923-924.	3.9	11
77	TPD-BASED BLUE ORGANIC LASERS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2004, 13, 621-626.	1.8	11
78	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
79	Enhanced Photorefractivity of Poly( <i>N</i> -vinylcarbazole)-Based Composites through Electric-Field Treatments and Ionic Liquid Doping. <i>Advanced Functional Materials</i> , 2009, 19, 428-437.	14.9	11
80	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
81	Electron Transport in a Water-Soluble Liquid-Crystalline Perylene Bisimide. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26577-26583.	3.1	10
82	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
83	Millisecond photorefractivity with novel dicyanomethylenedihydrofuran-containing polymers. <i>Journal of Materials Chemistry</i> , 2012, 22, 12220.	6.7	9
84	Molecular aggregation of naphthalimide organic semiconductors assisted by amphiphilic and lipophilic interactions: a joint theoretical and experimental study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6206-6215.	2.8	9
85	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
86	Simultaneous Determination of Refractive Index and Thickness of Submicron Optical Polymer Films from Transmission Spectra. <i>Polymers</i> , 2021, 13, 2545.	4.5	9
87	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
88	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
89	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
90	Optimization of the Laser Properties of Polymer Films Doped with <i>N,N'</i> -Bis(3-methylphenyl)- <i>N,N'</i> -diphenylbenzidine. <i>Materials</i> , 2009, 2, 1288-1304.	2.9	7

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91	Effect of Substituents at Imide Positions on the Laser Performance of 1,7-Bay-Substituted Perylenediimide Dyes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12277-12288.	3.1	7
92	Light-emitting diodes and lasers based on polymer films doped with small organic molecules and rare-earth complexes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 2706-2714.	2.1	6
93	Highly photostable solid-state organic distributed feedback laser fabricated via thermal nanoimprint lithography. <i>Microelectronic Engineering</i> , 2010, 87, 1428-1430.	2.4	6
94	Two-dimensional distributed feedback lasers with thermally-nanoimprinted perylenediimide-containing films. <i>Optical Materials Express</i> , 2017, 7, 1295.	3.0	6
95	Perylene- $\epsilon$ -Fused, Aggregation-Free Polycyclic Aromatic Hydrocarbons for Solution-Processed Distributed Feedback Lasers. <i>Angewandte Chemie</i> , 2020, 132, 15037-15044.	2.0	6
96	Free electron model for optical polarizabilities: Role of dimensionality. <i>Journal of Modern Optics</i> , 1997, 44, 179-190.	1.3	5
97	Modelling absorption and photoluminescence of TPD. <i>Journal of Luminescence</i> , 2008, 128, 845-847.	3.1	4
98	Thermal-nanoimprint lithography for perylenediimide-based distributed feedback laser fabrication. <i>Microelectronic Engineering</i> , 2014, 114, 52-56.	2.4	4
99	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
100	Bis(arylidene)tetrathiapentalenes " novel building blocks for extended tetrathiafulvalenes and conducting polymers. <i>Synthetic Metals</i> , 1997, 84, 445-446.	3.9	3
101	Comparing the distribution of the electronic gap of an organic molecule with its photoluminescence spectrum. <i>Applied Physics Letters</i> , 2013, 102, 163307.	3.3	3
102	Improved Amplified Spontaneous Emission of Dye-Doped Functionalized Mesostructured Silica Waveguide Films. <i>Advanced Optical Materials</i> , 2015, 3, 1454-1461.	7.3	3
103	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
104	Singular Temperatures Connected to Charge Transport Mechanism Transitions in Perylene Bisimides from Steady-State Photocurrent Measurements. <i>Journal of Physical Chemistry C</i> , 2015, 119, 14023-14028.	3.1	3
105	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
106	<title>Third-order hyperpolarizabilities of soluble organometallic compounds</title>. , 1994, 2285, 227.		2
107	Synthesis and second-order non-linear optical properties of substituted aminobenzoquinones. <i>Journal of Materials Chemistry</i> , 1995, 5, 385-387.	6.7	2
108	Amplified spontaneous emission in TPD-based waveguides: thickness and TPD concentration dependence.. , 2006, , .		2

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109	Critical Temperatures in the Photorefractive Polymer Composite Behavior. Journal of Physical Chemistry Letters, 2010, 1, 383-387.	4.6	2
110	Highly photoluminescent conjugated polymers: stimulated emission and device applications. , 1997, , .		1
111	<title>Photopumped gain narrowing experiments in oriented films of semiconducting polymers</title>. , 1997, , .		1
112	Synthesis, structure and second-order nonlinear optical properties of highly functionalized 6-aminopentafulvenes. Journal of Materials Chemistry, 1998, 8, 619-627.	6.7	1
113	Second-order distributed feedback lasers based on films containing perylenediimide derivatives. Proceedings of SPIE, 2010, , .	0.8	1
114	Optimization of the Electrochemically Generated Luminescence of Polyfluorene Films. Journal of Physical Chemistry C, 2018, 122, 3608-3616.	3.1	1
115	Violet-emitting distributed-feedback laser using a naphtho[2,1- <i>b</i> :6,5- <i>b'</i> ]difuran derivative. Journal of Materials Chemistry C, 2021, 9, 17287-17290.	5.5	1
116	<title>Light emission from semiconducting polymers: LEDs, lasers, and white light for the future</title>. , 1997, 3148, 22.		0
117	<title>Third-order nonlinear optical properties of phthalocyanines and related compounds</title>. , 1998, , .		0
118	<title>Trapping studies on photorefractive polymers</title>. , 1998, , .		0
119	Label-free sensors based on perylenediimide-doped polystyrene distributed feedback lasers. Proceedings of SPIE, 2015, , .	0.8	0
120	Transport and Optical Gaps in Amorphous Organic Molecular Materials. Molecules, 2019, 24, 609.	3.8	0