# 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 | Excited states engineering enables efficient near-infrared lasing in nanographenes. Materials Horizons, 2022, 9, 393-402. | 12.2 | 12 |
| 2 | Periâ€Acenoacene for Solution Processed Distributed Feedback Laser: The Effect of 1,2â€Oxaborine Doping. Advanced Optical Materials, 2022, 10, . | 7.3 | 9 |
| 3 | Unveiling photophysical and photonic phenomena by means of optical gain measurements in waveguides and solutions. Optics and Laser Technology, 2021, 136, 106766. | 4.6 | 3 |
| 4 | 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. | 3.1 | 7 |
| 5 | Simultaneous Determination of Refractive Index and Thickness of Submicron Optical Polymer Films from Transmission Spectra. Polymers, 2021, 13, 2545. | 4.5 | 9 |
| 6 | Nearâ€Infrared Lasing in Fourâ€Zigzag Edged Nanographenes by 1D versus 2D Electronic Ïâ€Conjugation. Advanced Functional Materials, 2021, 31, 2105073. | 14.9 | 25 |
| 7 | N,Nâ€²-Bis(3-methylphenyl)-N,Nâ€²-dyphenylbenzidine Based Distributed Feedback Lasers with Holographically Fabricated Polymeric Resonators. Polymers, 2021, 13, 3843. | 4.5 | 4 |
| 8 | Violet-emitting distributed-feedback laser using a naphtho[2,1-b:6,5-bâ€²]difuran derivative. Journal of Materials Chemistry C, 2021, 9, 17287-17290. | 5.5 | 1 |
| 9 | Blue and Deepâ€Blueâ€Emitting Organic Lasers with Topâ€Layer Distributed Feedback Resonators. Advanced Optical Materials, 2020, 8, 2001153. | 7.3 | 12 |
| 10 | Dual Amplified Spontaneous Emission and Lasing from Nanographene Films. Nanomaterials, 2020, 10, 1525. | 4.1 | 14 |
| 11 | Kinetically Protected Carbon-Bridged Oligo(p-phenylenevinylene) Derivatives for Blue Color Amplified Spontaneous Emission. Bulletin of the Chemical Society of Japan, 2020, 93, 751-758. | 3.2 | 9 |
| 12 | Coveâ€Edged Nanographenes with Localized Double Bonds. Angewandte Chemie - International Edition, 2020, 59, 8113-8117. | 13.8 | 30 |
| 13 | Coveâ€Edged Nanographenes with Localized Double Bonds. Angewandte Chemie, 2020, 132, 8190-8194. | 2.0 | 18 |
| 14 | Peryleneâ€Fused, Aggregationâ€Free Polycyclic Aromatic Hydrocarbons for Solutionâ€Processed Distributed Feedback Lasers. Angewandte Chemie, 2020, 132, 15037-15044. | 2.0 | 6 |
| 15 | Peryleneâ€Fused, Aggregationâ€Free Polycyclic Aromatic Hydrocarbons for Solutionâ€Processed Distributed Feedback Lasers. Angewandte Chemie - International Edition, 2020, 59, 14927-14934. | 13.8 | 24 |
| 16 | Design, synthesis and amplified spontaneous emission of 1,2,5-benzothiadiazole derivatives. Journal of Materials Chemistry C, 2019, 7, 9996-10007. | 5.5 | 21 |
| 17 | Controlling the emission properties of solution-processed organic distributed feedback lasers through resonator design. Scientific Reports, 2019, 9, 11159. | 3.3 | 20 |
| 18 | Solution-processed nanographene distributed feedback lasers. Nature Communications, 2019, 10, 3327. | 12.8 | 59 |

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| 19 | Sub-400â€¯nm film thickness determination from transmission spectra in organic distributed feedback lasers fabrication. Thin Solid Films, 2019, 692, 137580. | 1.8 | 8 |
| 20 | Transport and Optical Gaps in Amorphous Organic Molecular Materials. Molecules, 2019, 24, 609. | 3.8 | 0 |
| 21 | Carbonâ€Bridged pâ€Phenylenevinylene Polymer for Highâ€Performance Solutionâ€Processed Distributed Feedback Lasers. Advanced Optical Materials, 2018, 6, 1800069. | 7.3 | 20 |
| 22 | Optimization of the Electrochemically Generated Luminescence of Polyfluorene Films. Journal of Physical Chemistry C, 2018, 122, 3608-3616. | 3.1 | 1 |
| 23 | Influence of Blending Ratio and Polymer Matrix on the Lasing Properties of Perylenediimide Dyes. Journal of Physical Chemistry C, 2018, 122, 24896-24906. | 3.1 | 23 |
| 24 | Bis(aminoaryl) Carbonâ€Bridged Oligo(phenylenevinylene)s Expand the Limits of Electronic Couplings. Angewandte Chemie - International Edition, 2017, 56, 2898-2902. | 13.8 | 50 |
| 25 | Molecular aggregation of naphthalimide organic semiconductors assisted by amphiphilic and lipophilic interactions: a joint theoretical and experimental study. Physical Chemistry Chemical Physics, 2017, 19, 6206-6215. | 2.8 | 9 |
| 26 | Plasmonic Enhancement in the Fluorescence of Organic and Biological Molecules by Photovoltaic Tweezing Assembly. Advanced Materials Technologies, 2017, 2, 1700024. | 5.8 | 14 |
| 27 | Are Electron Affinity and Ionization Potential Intrinsic Parameters to Predict the Electron or Hole Acceptor Character of Amorphous Molecular Materials?. Journal of Physical Chemistry Letters, 2017, 8, 2445-2449. | 4.6 | 40 |
| 28 | An Efficient and Colorâ€Tunable Solutionâ€Processed Organic Thinâ€Film Laser with a Polymeric Topâ€Layer Resonator. Advanced Optical Materials, 2017, 5, 1700238. | 7.3 | 39 |
| 29 | Two-dimensional distributed feedback lasers with thermally-nanoimprinted perylenediimide-containing films. Optical Materials Express, 2017, 7, 1295. | 3.0 | 6 |
| 30 | 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. | 7.8 | 10 |
| 31 | Organic distributed feedback laser for label-free biosensing of ErbB2 protein biomarker. Sensors and Actuators B: Chemical, 2016, 223, 261-265. | 7.8 | 28 |
| 32 | Improved Amplified Spontaneous Emission of Dyeâ€Doped Functionalized Mesostructured Silica Waveguide Films. Advanced Optical Materials, 2015, 3, 1454-1461. | 7.3 | 3 |
| 33 | Solution-processable, photo-stable, low-threshold, and broadly tunable thin film organic lasers based on novel high-performing laser dyes. Proceedings of SPIE, 2015, , . | 0.8 | 3 |
| 34 | Label-free sensors based on perylenediimide-doped polystyrene distributed feedback lasers. Proceedings of SPIE, 2015, , . | 0.8 | 0 |
| 35 | Distributed feedback lasers based on perylenediimide dyes for label-free refractive index sensing. Sensors and Actuators B: Chemical, 2015, 220, 1368-1375. | 7.8 | 29 |
| 36 | Singular Temperatures Connected to Charge Transport Mechanism Transitions in Perylene Bisimides from Steady-State Photocurrent Measurements. Journal of Physical Chemistry C, 2015, 119, 14023-14028. | 3.1 | 3 |

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| 37 | Carbon-bridged oligo(p-phenylenevinylene)s for photostable and broadly tunable, solution-processable thin film organic lasers. Nature Communications, 2015, 6, 8458. | 12.8 | 105 |
| 38 | Distributed feedback lasers based on dichromated poly(vinyl alcohol) reusable surface-relief gratings. Optical Materials Express, 2014, 4, 733. | 3.0 | 13 |
| 39 | Electron Transport in a Water-Soluble Liquid-Crystalline Perylene Bisimide. Journal of Physical Chemistry C, 2014, 118, 26577-26583. | 3.1 | 10 |
| 40 | Thermal-nanoimprint lithography for perylenediimide-based distributed feedback laser fabrication. Microelectronic Engineering, 2014, 114, 52-56. | 2.4 | 4 |
| 41 | Perylenediimide-based distributed feedback lasers with holographic relief gratings on dichromated gelatine. Journal of Applied Physics, 2013, 114, . | 2.5 | 19 |
| 42 | Comparing the distribution of the electronic gap of an organic molecule with its photoluminescence spectrum. Applied Physics Letters, 2013, 102, 163307. | 3.3 | 3 |
| 43 | 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. | 7.3 | 11 |
| 44 | Improved performance of perylenediimide-based lasers. Journal of Materials Chemistry C, 2013, 1, 1182-1191. | 5.5 | 47 |
| 45 | 1,7â€Bayâ€Substituted Perylenediimide Derivative with Outstanding Laser Performance. Advanced Optical Materials, 2013, 1, 933-938. | 7.3 | 58 |
| 46 | Thickness dependence of amplified spontaneous emission in low-absorbing organic waveguides. Applied Optics, 2012, 51, 3287. | 1.8 | 30 |
| 47 | Influence of the excitation area on the thresholds of organic second-order distributed feedback lasers. Applied Physics Letters, 2012, 101, 223303. | 3.3 | 25 |
| 48 | Film thickness and grating depth variation in organic second-order distributed feedback lasers. Journal of Applied Physics, 2012, 112, . | 2.5 | 43 |
| 49 | Stimulated Resonance Raman Scattering and Laser Oscillation in Highly Emissive Distyrylbenzeneâ€Based Molecular Crystals. Advanced Materials, 2012, 24, 6473-6478. | 21.0 | 62 |
| 50 | Millisecond photorefractivity with novel dicyanomethylenedihydrofuran-containing polymers. Journal of Materials Chemistry, 2012, 22, 12220. | 6.7 | 9 |
| 51 | Efficient organic distributed feedback lasers with imprinted active films. Optics Express, 2011, 19, 22443. | 3.4 | 47 |
| 52 | Very Large Photoconduction Enhancement Upon Selfâ€Assembly of a New Triindole Derivative in Solutionâ€Processed Films. Advanced Functional Materials, 2011, 21, 738-745. | 14.9 | 25 |
| 53 | Highly photostable solid-state organic distributed feedback laser fabricated via thermal nanoimprint lithography. Microelectronic Engineering, 2010, 87, 1428-1430. | 2.4 | 6 |
| 54 | Second-order distributed feedback lasers based on films containing perylenediimide derivatives. Proceedings of SPIE, 2010, , . | 0.8 | 1 |

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| 55 | Amplified Spontaneous Emission Properties of Semiconducting Organic Materials. International Journal of Molecular Sciences, 2010, 11, 2546-2565. | 4.1 | 50 |
| 56 | Critical Temperatures in the Photorefractive Polymer Composite Behavior. Journal of Physical Chemistry Letters, 2010, 1, 383-387. | 4.6 | 2 |
| 57 | Blue surface-emitting distributed feedback lasers based on TPD-doped films. Applied Optics, 2010, 49, 463. | 2.1 | 25 |
| 58 | Highly photostable organic distributed feedback laser emitting at 573 nm. Applied Physics Letters, 2010, 97, 171104. | 3.3 | 43 |
| 59 | Optimization of the Laser Properties of Polymer Films Doped with N,NÂ´-Bis(3-methylphenyl)-N,NÂ´-diphenylbenzidine. Materials, 2009, 2, 1288-1304. | 2.9 | 7 |
| 60 | Nonlinear optical properties of phthalocyanines and related compounds. Journal of Porphyrins and Phthalocyanines, 2009, 13, 652-667. | 0.8 | 33 |
| 61 | Enhanced Photorefractivity of Poly(Nâ€vinylcarbazole)â€Based Composites through Electricâ€Field Treatments and Ionic Liquid Doping. Advanced Functional Materials, 2009, 19, 428-437. | 14.9 | 11 |
| 62 | Asymmetry between Absorption and Photoluminescence Line Shapes of TPD: Spectroscopic Fingerprint of the Twisted Biphenyl Core. Journal of Physical Chemistry A, 2009, 113, 315-324. | 2.5 | 33 |
| 63 | Phthalocyanines as Efficient Sensitizers in Low-T<sub>g</sub> Hole-Conducting Photorefractive Polymer Composites. Chemistry of Materials, 2009, 21, 2714-2720. | 6.7 | 23 |
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| 65 | Effect of ring fusion on the amplified spontaneous emission properties of oligothiophenes. Journal of Materials Chemistry, 2009, 19, 6556. | 6.7 | 17 |
| 66 | Modelling absorption and photoluminescence of TPD. Journal of Luminescence, 2008, 128, 845-847. | 3.1 | 4 |
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| 68 | Photorefractive polymer composites using a trinitrofluorenoneâ€“C60 dyad with a conformationally flexible linker as photosensitizer. Synthetic Metals, 2007, 157, 1064-1070. | 3.9 | 8 |
| 69 | Amplified spontaneous emission in polymer films doped with a perylenediimide derivative. Applied Optics, 2007, 46, 3836. | 2.1 | 40 |
| 70 | Effect of Structural Modifications in the Spectral and Laser Properties of Perylenediimide Derivatives. Journal of Physical Chemistry C, 2007, 111, 13595-13605. | 3.1 | 67 |
| 71 | The structure and energetics of TPD ground and excited states. Chemical Physics, 2007, 332, 48-54. | 1.9 | 21 |
| 72 | Amplified spontaneous emission in TPD-based waveguides: thickness and TPD concentration dependence.. , 2006, , . | | 2 |

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| 73 | Concentration dependence of amplified spontaneous emission in organic-based waveguides. Organic Electronics, 2006, 7, 319-329. | 2.6 | 38 |
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| 75 | Concentration dependence of amplified spontaneous emission in two oligo-(p-phenylenevinylene) derivatives. Journal of Applied Physics, 2005, 97, 063522. | 2.5 | 20 |
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| 77 | TPD-BASED BLUE ORGANIC LASERS. Journal of Nonlinear Optical Physics and Materials, 2004, 13, 621-626. | 1.8 | 11 |
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| 82 | Index of refraction and waveguiding in thin films of a conjugated polymer which exhibits stimulated emission. Synthetic Metals, 1999, 102, 1091-1092. | 3.9 | 24 |
| 83 | Photorefractive Properties of Poly(N-vinyl carbazole)-Based Composites for High-Speed Applications. Chemistry of Materials, 1999, 11, 1784-1791. | 6.7 | 129 |
| 84 | Microstructure of thin films of photoluminescent semiconducting polymers. Polymer, 1998, 39, 2299-2304. | 3.8 | 124 |
| 85 | Synthesis and third-order NLO properties in LB films of triazolehemiporphyrazines. Synthetic Metals, 1998, 93, 213-218. | 3.9 | 13 |
| 86 | Semiconducting polymers as materials for photonic devices. Current Opinion in Solid State and Materials Science, 1998, 3, 16-22. | 11.5 | 33 |
| 87 | Semiconducting polymer distributed feedback lasers. Applied Physics Letters, 1998, 72, 1536-1538. | 3.3 | 238 |
| 88 | Amplified spontaneous emission from photopumped films of a conjugated polymer. Physical Review B, 1998, 58, 7035-7039. | 3.2 | 292 |
| 89 | Synthesis, structure and second-order nonlinear optical properties of highly functionalized 6-aminopentafulvenes. Journal of Materials Chemistry, 1998, 8, 619-627. | 6.7 | 1 |
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| 98 | <title>Light emission from semiconducting polymers: LEDs, lasers, and white light for the future</title>. , 1997, 3148, 22. | | 0 |
| 99 | Pushâ^'Pull Phthalocyanines:Â A Hammett Correlation between the Cubic Hyperpolarizability and the Donorâ^'Acceptor Character of the Substituents. Journal of Physical Chemistry A, 1997, 101, 9773-9777. | 2.5 | 74 |
| 100 | Synthesis, Characterization, Optical Spectroscopic, Electronic Structure, and Second-Order Nonlinear Optical (NLO) Properties of a Novel Class of Donorâ^'Acceptor Bis(salicylaldiminato)nickel(II) Schiff Base NLO Chromophores. Journal of the American Chemical Society, 1997, 119, 9550-9557. | 13.7 | 273 |
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| 102 | New Developments in the Photonic Applications of Conjugated Polymers. Accounts of Chemical Research, 1997, 30, 430-436. | 15.6 | 485 |
| 103 | Macroscopic third order nonlinear optical behavior of metal-containing phthalocyanines bearing alkyl-amido functional groups. Synthetic Metals, 1997, 84, 923-924. | 3.9 | 11 |
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| 106 | Plastic lasers: Semiconducting polymers as a new class of solid-state laser materials. Synthetic Metals, 1997, 84, 455-462. | 3.9 | 148 |
| 107 | Nonlinear absorption of soluble octasubstituted metallophtalocyanines at 1.064 Î¼m. Chemical Physics Letters, 1997, 266, 86-90. | 2.6 | 20 |
| 108 | Subphthalocyanines:Â Novel Targets for Remarkable Second-Order Optical Nonlinearities. Journal of the American Chemical Society, 1996, 118, 2746-2747. | 13.7 | 146 |

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| 109 | Semiconducting Polymers: A New Class of Solid-State Laser Materials. Science, 1996, 273, 1833-1836. | 12.6 | 837 |
| 110 | THG from copper phthalocyanines in a solâ€"gel host. Synthetic Metals, 1996, 83, 273-276. | 3.9 | 11 |
| 111 | Laser emission from solutions and films containing semiconducting polymer and titanium dioxide nanocrystals. Chemical Physics Letters, 1996, 256, 424-430. | 2.6 | 295 |
| 112 | Thirdâ€order nonlinear optical susceptibilities of the Langmuirâ€"Blodgett films of octaâ€substituted metallophthalocyanines. Applied Physics Letters, 1996, 69, 293-295. | 3.3 | 22 |
| 113 | Identification of two-photon states in phthalocyanines by third harmonic generation spectroscopy. Chemical Physics Letters, 1995, 235, 535-540. | 2.6 | 30 |
| 114 | Third Harmonic Generation Spectroscopy of Boron Subphthalocyanine. The Journal of Physical Chemistry, 1995, 99, 14988-14991. | 2.9 | 54 |
| 115 | Synthesis and second-order non-linear optical properties of substituted aminobenzoquinones. Journal of Materials Chemistry, 1995, 5, 385-387. | 6.7 | 2 |
| 116 | Third-Order Nonlinear Optical Properties of Soluble Metallotriazolylhemiporphyrazines. The Journal of Physical Chemistry, 1994, 98, 4495-4497. | 2.9 | 51 |
| 117 | Third-Order Nonlinear Optical Properties of Soluble Octasubstituted Metallophthalocyanines. The Journal of Physical Chemistry, 1994, 98, 8761-8764. | 2.9 | 120 |
| 118 | Sizable Second-Order Nonlinear Optical Response of Donor-Acceptor Bis(salicylaldiminato)nickel(II) Schiff Base Complexes. Chemistry of Materials, 1994, 6, 881-883. | 6.7 | 79 |
| 119 | <title>Third-order hyperpolarizabilities of soluble organometallic compounds</title>. , 1994, 2285, 227. | | 2 |
| 120 | Direct measurement of ordinary refractive index of proton exchanged LiNbO3 waveguides. Optics Communications, 1992, 92, 40-44. | 2.1 | 26 |