

Javier Perez-Moreno

List of Publications by Year in descending order

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33
papers

906
citations

430874

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454955

30
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34
all docs

34
docs citations

34
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear and Nonlinear Optical Properties of Colloidal Photonic Crystals. <i>Chemical Reviews</i> , 2012, 112, 2268-2285.	47.7	158
2	Modulated conjugation as a means for attaining a record high intrinsic hyperpolarizability. <i>Optics Letters</i> , 2007, 32, 59.	3.3	75
3	Modulated Conjugation as a Means of Improving the Intrinsic Hyperpolarizability. <i>Journal of the American Chemical Society</i> , 2009, 131, 5084-5093.	13.7	70
4	Substituted 4,4'-Stilbenoid NCN-Pincer Platinum(II) Complexes. Luminescence and Tuning of the Electronic and NLO Properties and the Application in an OLED. <i>Organometallics</i> , 2008, 27, 1690-1701.	2.3	56
5	Sum rules and scaling in nonlinear optics. <i>Physics Reports</i> , 2013, 529, 297-398.	25.6	56
6	Thiophene-based dyes for probing membranes. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 3792-3802.	2.8	41
7	A new dipole-free sum-over-states expression for the second hyperpolarizability. <i>Journal of Chemical Physics</i> , 2008, 128, 084109.	3.0	37
8	Preparation and characterization of second order non-linear optical properties of new "push-pull" platinum complexes. <i>Dalton Transactions</i> , 2009, , 4538.	3.3	36
9	Molecular Origins of the High-Performance Nonlinear Optical Susceptibility in a Phenolic Polyene Chromophore: Electron Density Distributions, Hydrogen Bonding, and ab Initio Calculations. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9416-9430.	3.1	34
10	Combined molecular and supramolecular bottom-up nanoengineering for enhanced nonlinear optical response: Experiments, modeling, and approaching the fundamental limit. <i>Journal of Chemical Physics</i> , 2007, 126, 074705.	3.0	33
11	Comment on "Organometallic Complexes for Nonlinear Optics. 45. Dispersion of the Third-Order Nonlinear Optical Properties of Triphenylamine-Cored Alkynylruthenium Dendrimers" Increasing the Nonlinear Optical Response by Two Orders of Magnitude. <i>Advanced Materials</i> , 2011, 23, 1428-1432.	21.0	33
12	Synthesis and Nonlinear Optical Properties of Tetrahedral Octupolar Phthalocyanine-Based Systems. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6309-6315.	2.6	32
13	Synthesis, Crystal Structure, and Second-Order Nonlinear Optical Properties of Ruthenium(II) Complexes with Substituted Bipyridine and Phenylpyridine Ligands. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 3105-3113.	2.0	30
14	Dispersion Overwhelms Charge Transfer in Determining the Magnitude of the First Hyperpolarizability in Triindole Octupoles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12312-12321.	3.1	30
15	"Push-no-pull" porphyrins for second harmonic generation imaging. <i>Chemical Science</i> , 2013, 4, 2024.	7.4	28
16	Novel charged NLO chromophores based on quinolininium acceptor units. <i>Dyes and Pigments</i> , 2014, 101, 116-121.	3.7	27
17	Synthesis and nonlinear optical properties of linear and β -shaped pyranone-based chromophores. <i>Tetrahedron</i> , 2008, 64, 3772-3781.	1.9	24
18	Strong Wavelength Dependence of Hyperpolarizability in the Near-Infrared Biological Window for Second-Harmonic Generation by Amphiphilic Porphyrins. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13781-13787.	3.1	20

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19	Experimental verification of a self-consistent theory of the first-, second-, and third-order (non)linear optical response. <i>Physical Review A</i> , 2011, 84, .	2.5	14
20	Heteroaromatic Cation-Based Chromophores: Synthesis and Nonlinear Optical Properties of Alkynylazinium Salts. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 6323-6330.	2.4	11
21	Azonia aromatic heterocycles as a new acceptor unit in D- π -A + vs D-A + nonlinear optical chromophores. <i>Dyes and Pigments</i> , 2017, 144, 17-31.	3.7	11
22	FUNDAMENTAL LIMITS: DEVELOPING NEW TOOLS FOR A BETTER UNDERSTANDING OF SECOND-ORDER MOLECULAR NONLINEAR OPTICS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2009, 18, 401-440.	1.8	7
23	Molecular Origins of the Nonlinear Optical Responses of a Series of π -(X-2-Pyridylamino)- σ -cresol Chromophores from Concerted X-ray Diffraction, Hyper-Rayleigh Scattering, and ab Initio Calculations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 665-676.	3.1	7
24	Relating the Structure of Geminal Amido Esters to their Molecular Hyperpolarizability. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29439-29448.	3.1	6
25	Applying universal scaling laws to identify the best molecular design paradigms for second-order nonlinear optics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, E45.	2.1	5
26	Octupolar organometallic Pt(II) NCN-pincer complexes; Synthesis, electronic, photophysical, and NLO properties. <i>Journal of Organometallic Chemistry</i> , 2018, 867, 246-252.	1.8	4
27	Applying universal scaling laws to identify the best molecular design paradigms for third-order nonlinear optics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, E57.	2.1	4
28	Phosphorescence emission from BAQ by forced intersystem crossing in a colloidal photonic crystal. <i>Molecular Physics</i> , 2016, 114, 2248-2252.	1.7	3
29	Three-state interactions determine the second-order nonlinear optical response. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, E171.	2.1	1
30	High "intrinsic" first hyperpolarizability by modulating the conjugation path between donor and acceptor. , 2007, , .		0
31	Using numerical optimization techniques and conjugation modulation to design the ultimate nonlinear-optical molecule. , 2007, , .		0
32	A toy model for the nonlinear optical response of molecules with modulated conjugation. , 2014, , .		0
33	Sum Rules: Applications to Nonlinear Optics at the Molecular Level. , 2009, , .		0