Mariacristina Rumi

List of Publications by Year
in descending order

43	6,695	393982	377514
papers	citations	19 h-index	34 g-index

43	43	43	5568
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two-photon polymerization initiators for three-dimensional optical data storage and microfabrication. Nature, 1999, 398, 51-54.	13.7	2,134
2	Design of Organic Molecules with Large Two-Photon Absorption Cross Sections. , 1998, 281, 1653-1656.		2,047
3	Structureâ^'Property Relationships for Two-Photon Absorbing Chromophores:Â Bis-Donor Diphenylpolyene and Bis(styryl)benzene Derivatives. Journal of the American Chemical Society, 2000, 122, 9500-9510.	6.6	842
4	Two-photon absorption: an overview of measurements and principles. Advances in Optics and Photonics, 2010, 2, 451.	12.1	278
5	One- and Two-Photon Spectroscopy of Donorâ^'Acceptorâ^'Donor Distyrylbenzene Derivatives:â€‰ Effect of Cyano Substitution and Distortion from Planarity. Journal of Physical Chemistry A, 2002, 106, 11470-11480.	1.1	227
6	Metal-Ion Sensing Fluorophores with Large Two-Photon Absorption Cross Sections:Â Aza-Crown Ether Substituted Donorâ^'Acceptorâ^'Donor Distyrylbenzenes. Journal of the American Chemical Society, 2004, 126, 9291-9306.	6.6	206
7	Two-Photon Absorption in Three-Dimensional Chromophores Based on [2.2]-Paracyclophane. Journal of the American Chemical Society, 2004, 126, 11529-11542.	6.6	161
8	Strong, Low-Energy Two-Photon Absorption in Extended Amine-Terminated Cyano-Substituted Phenylenevinylene Oligomers. Journal of the American Chemical Society, 2005, 127, 10844-10845.	6.6	124
9	Optimizing Two-Photon Initiators and Exposure Conditions for Three-Dimensional Lithographic Microfabrication.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2001, 14, 657-668.	0.1	87
10	Nonlinear optical and vibrational properties of conjugated polyaromatic molecules. Journal of Chemical Physics, 1997, 106, 24-34.	1.2	62
11	Conformational dependence of vibrational and molecular nonlinear optical properties in substituted benzenes: the role of Ï€-electron conjugation and back-donation. Journal of Molecular Structure, 1999, 509, 11-28.	1.8	62
12	Thermochemical Nanolithography of Multifunctional Nanotemplates for Assembling Nanoâ€Objects. Advanced Functional Materials, 2009, 19, 3696-3702.	7.8	61
13	Two-Photon Absorbing Materials and Two-Photon-Induced Chemistry. , 2008, , 1-95.		39
14	Tetrastyrylarene Derivatives: Comparison of One- and Two-Photon Spectroscopic Properties with Distyrylarene Analogues. Journal of Physical Chemistry C, 2008, 112, 8061-8071.	1.5	38
15	Effects of Dendronization on the Linear and Third-Order Nonlinear Optical Properties of Bis(thiopyrylium) Polymethine Dyes in Solution and the Solid State. Chemistry of Materials, 2012, 24, 1606-1618.	3.2	38
16	Photoresponsive Structural Color in Liquid Crystalline Materials. Advanced Optical Materials, 2019, 7, 1900429.	3.6	34
17	Conformational dependence of linear and nonlinear molecular optical properties by ab initio methods: the case of oligo-p-phenylenes. Chemical Physics, 1999, 242, 123-140.	0.9	33
18	Preparation and Characterization of 4â€²-Donor Substituted Stilbene-4-thiolate Monolayers and Their Influence on the Work Function of Gold. Langmuir, 2009, 25, 7967-7975.	1.6	24

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19	Excited-state dynamics and dyeâ€“dye interactions in dye-coated gold nanoparticles with varying alkyl spacer lengths. Physical Chemistry Chemical Physics, 2010, 12, 6267.	1.3	23
20	Structureâ€“processingâ€“property correlations in solution-processed, small-molecule, organic solar cells. Journal of Materials Chemistry C, 2013, 1, 5250.	2.7	22
21	Vibrational and nonlinear optical properties of rylenes calculated by ab initio methods. Journal of Chemical Physics, 1998, 108, 8662-8670.	1.2	20
22	Electrical Control of Unpolarized Reflectivity in Polymerâ€Stabilized Cholesteric Liquid Crystals at Oblique Incidence. Advanced Optical Materials, 2018, 6, 1800957.	3.6	17
23	Timeâ€dependent deformation of structurally chiral polymer networks in stabilized cholesteric liquid crystals. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1087-1093.	2.4	11
24	<title>Three-dimensional microfabrication using two-photon-activated chemistry</title>. , 2000, 3937, 97.		10
25	The length of the charge carrier in doped polyenes. Chemical Physics Letters, 1994, 231, 70-74.	1.2	9
26	Progression of combination bands in the infrared spectra of polyenes. Chemical Physics Letters, 1995, 242, 639-643.	1.2	9
27	New Photopolymers Based on Two-Photon Absorbing Chromophores and Application to Three-Dimensional Microfabrication and Optical Storage. Materials Research Society Symposia Proceedings, 1997, 488, 217.	0.1	9
28	Reflection spectra of distorted cholesteric liquid crystal structures in cells with interdigitated electrodes. Optics Express, 2014, 22, 16510.	1.7	9
29	A Different Perspective on Cholesteric Liquid Crystals Reveals Unique Color and Polarization Changes. ACS Applied Materials & Interfaces, 2020, 12, 37400-37408.	4.0	9
30	Nonâ€Uniform Helix Unwinding of Cholesteric Liquid Crystals in Cells with Interdigitated Electrodes. ChemPhysChem, 2014, 15, 1311-1322.	1.0	8
31	Effect of Cell Thickness on the Electro-optic Response of Polymer Stabilized Cholesteric Liquid Crystals with Negative Dielectric Anisotropy. Materials, 2020, 13, 746.	1.3	8
32	Polymer Dispersed Liquid Crystals. RSC Soft Matter, 2019, , 61-104.	0.2	8
33	Quantification of photoinduced order increase in liquid crystals with naphthopyran guests. Physical Review E, 2016, 93, 032701.	0.8	6
34	Polymer stabilization of cholesteric liquid crystals in the oblique helicoidal state. Soft Matter, 2018, 14, 8883-8894.	1.2	6
35	Raman intensities and molecular hyperpolarizability of polyindenofluorene. Chemical Physics Letters, 1997, 273, 429-434.	1.2	4
36	Effects of in-plane electric fields on the optical properties of cholesteric liquid crystals. , 2013, , .		4

#	Article	IF	Citations
37	Phototropic Guestâ€“Host Liquid Crystal Systems: Environmental Effects on Naphthopyran Kinetics. Journal of Physical Chemistry B, 2016, 120, 12755-12767.	1.2	4
38	Polymers in photonics: Controlling information by manipulating light. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 157-157.	2.4	1
39	Theoretical Design of Organic Chromophores with Large Two-Photon Absorption Cross-Sections. , 2000, , 53-65.		1
40	Water-soluble 1,4-bis(4-aminostyryl)benzene derivatives for biological two-photon applications. , 2004, 5516, 21.		0
41	New derivatives of cyclohexanone and piperidone compounds for bioluminous sensing. , 2006, 6097, 85.		0
42	Two-photon absorption in cross-shaped chromophores with phenylene-vinylene backbones. , 2008, , .		0
43	Local Optical Spectra and Texture for Chiral Nematic Liquid Crystals in Cells with Interdigitated Electrodes. Molecular Crystals and Liquid Crystals, 2014, 595, 123-135.	0.4	0