

Francisco J Rodriguez

List of Publications by Year in descending order

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41
papers

1,203
citations

516710

16
h-index

454955

30
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41
all docs

41
docs citations

41
times ranked

1751
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid graphene plasmonic waveguide modulators. <i>Nature Communications</i> , 2015, 6, 8846.	12.8	232
2	Surface and bulk contributions to the second-order nonlinear optical response of a gold film. <i>Physical Review B</i> , 2009, 80, .	3.2	226
3	Hydrogen-Bonded Polymer-azobenzene Complexes: Enhanced Photoinduced Birefringence with High Temporal Stability through Interplay of Intermolecular Interactions. <i>Chemistry of Materials</i> , 2008, 20, 6358-6363.	6.7	111
4	Super-Narrow, Extremely High Quality Collective Plasmon Resonances at Telecom Wavelengths and Their Application in a Hybrid Graphene-Plasmonic Modulator. <i>Nano Letters</i> , 2015, 15, 3519-3523.	9.1	73
5	Enhanced photoinduced birefringence in polymer-dye complexes: Hydrogen bonding makes a difference. <i>Applied Physics Letters</i> , 2007, 90, 121103.	3.3	68
6	Photoinduced supramolecular chirality in side-chain liquid crystalline azopolymers. <i>Journal of Materials Chemistry</i> , 2006, 16, 1674-1680.	6.7	59
7	Giant photoeffect in proton transport through graphene membranes. <i>Nature Nanotechnology</i> , 2018, 13, 300-303.	31.5	59
8	Photoinduced optical anisotropy in azobenzene methacrylate block copolymers: Influence of molecular weight and irradiation conditions. <i>European Polymer Journal</i> , 2009, 45, 262-271.	5.4	36
9	Nonlinear Light Mixing by Graphene Plasmons. <i>Nano Letters</i> , 2018, 18, 282-287.	9.1	32
10	Methacrylic azopolymers for holographic storage: A comparison among different polymer types. <i>European Polymer Journal</i> , 2007, 43, 3292-3300.	5.4	31
11	Calibration of the second-order nonlinear optical susceptibility of surface and bulk of glass. <i>Optics Express</i> , 2008, 16, 8704.	3.4	30
12	Light coupling into the Whispering Gallery Modes of a fiber array thin film solar cell for fixed partial Sun tracking. <i>Scientific Reports</i> , 2014, 4, .	3.3	29
13	Multipolar tensor analysis of second-order nonlinear optical response of surface and bulk of glass. <i>Optics Express</i> , 2007, 15, 8695.	3.4	27
14	SUPPRESSION OF CHROMOPHORE AGGREGATION IN AMORPHOUS POLYMERIC MATERIALS: TOWARDS MORE EFFICIENT PHOTORESPONSIVE BEHAVIOR. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2010, 19, 57-73.	1.8	27
15	Volume holographic storage and multiplexing in blends of PMMA and a block methacrylic azopolymer, using 488nm light pulses in the range of 100ms to 1s. <i>European Polymer Journal</i> , 2008, 44, 72-78.	5.4	21
16	Solid-State Electrolyte-Gated Graphene in Optical Modulators. <i>Advanced Materials</i> , 2017, 29, 1606372.	21.0	19
17	High and stable photoinduced anisotropy in guest-host polymer mediated by chromophore aggregation. <i>Optics Letters</i> , 2010, 35, 1813.	3.3	16
18	Surface relief gratings induced by a nanosecond pulse in a liquid-crystalline azo-polymethacrylate. <i>Applied Physics Letters</i> , 2005, 87, 201914.	3.3	15

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19	Red light induced holographic storage in an azobenzene polymethacrylate at room temperature. <i>Optical Materials</i> , 2006, 28, 480-487.	3.6	15
20	Enhancement of bulk-type multipolar second-harmonic generation arising from surface morphology of metals. <i>New Journal of Physics</i> , 2010, 12, 063009.	2.9	13
21	Controlling the diffused nonlinear light generated in random materials. <i>Optics Letters</i> , 2012, 37, 1676.	3.3	13
22	Influence of UV irradiation on the blue and red light photoinduced processes in azobenzene polyesters. <i>Polymer</i> , 2004, 45, 6003-6012.	3.8	10
23	Nanomechanical electro-optical modulator based on atomic heterostructures. <i>Nature Communications</i> , 2016, 7, 13590.	12.8	10
24	Observation of speckle pattern formation in transparent nonlinear random media. <i>Optics Letters</i> , 2011, 36, 1347.	3.3	7
25	Reversible change of birefringence sign by optical and thermal processes in an azobenzene polymethacrylate. <i>Applied Physics Letters</i> , 2005, 86, 021907.	3.3	5
26	Wave-front phase-modulation control and focusing of second-harmonic light generated in transparent nonlinear random structures. <i>Physical Review A</i> , 2013, 87, .	2.5	5
27	Spatial control of second-harmonic light from a disordered structure. , 2012, , .		4
28	Non-linear Optical Properties of Liquid Crystalline Azobenzene Polymeric Films. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 411, 467-475.	0.9	3
29	Plasmon-induced nanoscale quantised conductance filaments. <i>Scientific Reports</i> , 2017, 7, 2878.	3.3	3
30	Unusual photo-induced behaviour in a side chain liquid crystalline azo-polyester. <i>European Polymer Journal</i> , 2006, 42, 3294-3302.	5.4	2
31	Stability of all-optical poling in hydrogen-bonded guest-host polymers. , 2007, , .		1
32	Nanoscale light field imaging with graphene. <i>Communications Materials</i> , 2022, 3, .	6.9	1
33	Calibration of multipolar second-order response of isotropic bulk materials. , 2007, , .		0
34	Enhanced photoinduced birefringence in hydrogen-bonded polymer-dye complexes. , 2007, , .		0
35	Second-order nonlinear optical susceptibilities of surface and bulk of glass. , 2007, , .		0
36	Pulsed holographic gratings in azo-polymethacrylates with different molecular architectures. , 2007, 6488, 40.		0

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37	Enhanced photoinduced birefringence in hydrogen-bonded guest-host polymers. , 2007, , .		0
38	Enhanced quadrupolar second-harmonic generation from rough gold films. Proceedings of SPIE, 2010, , .	0.8	0
39	Multipolar contributions to the second-order nonlinearity of gold. , 2010, , .		0
40	Surface and Bulk Contributions to the Second-Order Nonlinearity of Gold. , 2009, , .		0
41	Second-order nonlinear optical response of gold. , 2009, , .		0