

Andrea Bianco

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

1,381
citations

22
h-index

33
g-index

138
ext. papers

1,802
ext. citations

4.9
avg, IF

4.22
L-index

#	Paper	IF	Citations
95	Silicon based photo-controlled deformable mirror. <i>Optics and Lasers in Engineering</i> , 2022 , 153, 106993	4.6	
94	UV-C irradiation is highly effective in inactivating SARS-CoV-2 replication. <i>Scientific Reports</i> , 2021 , 11, 6260	4.9	78
93	Cyclic allylic sulfide based photopolymer for holographic recording showing high refractive index modulation. <i>Journal of Polymer Science</i> , 2021 , 59, 1399-1413	2.4	2
92	ESPRESSO at VLT. <i>Astronomy and Astrophysics</i> , 2021 , 645, A96	5.1	68
91	ESPRESSO high-resolution transmission spectroscopy of WASP-76 b. <i>Astronomy and Astrophysics</i> , 2021 , 646, A158	5.1	23
90	Structural and Spectroscopic Properties of Benzoylpyridine-Based Hydrazones. <i>ChemPhysChem</i> , 2021 , 22, 533-541	3.2	2
89	Solar UV-B/A radiation is highly effective in inactivating SARS-CoV-2. <i>Scientific Reports</i> , 2021 , 11, 14805	4.9	7
88	End to end simulators: a flexible and scalable cloud-based architecture. <i>Experimental Astronomy</i> , 2020 , 50, 215-232	1.3	1
87	Photo-Fries reaction in acetoxyphenyl thiophenes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 397, 112502	4.7	
86	Roadmap on holography. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 123002	1.7	16
85	Forcing Seasonality of Influenza-like Epidemics with Daily Solar Resonance. <i>IScience</i> , 2020 , 23, 101605	6.1	6
84	High response photochromic films based on D-A diarylethenes and their application in holography.. <i>RSC Advances</i> , 2020 , 10, 26177-26187	3.7	4
83	Tuning the β and scattering in Bayfol [®] HX based holograms. <i>Optical Materials</i> , 2020 , 109, 110362	3.3	1
82	Nightside condensation of iron in an ultrahot giant exoplanet. <i>Nature</i> , 2020 , 580, 597-601	50.4	83
81	A Cloud-based Architecture for the Cherenkov Telescope Array Observation Simulations: Optimization, Design, and Results. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 240, 32	8	8
80	Holography with Photochromic Diarylethenes. <i>Materials</i> , 2019 , 12,	3.5	5
79	The Island CGH, a new coding scheme: concept and demonstration. <i>Optics Express</i> , 2019 , 27, 26446-26458	3.3	1

78	Photoswitching hydrazones based on benzoylpyridine. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24749-24757	3.6	7
77	Adaptable Microcontact Printing via Photochromic Optical-Saturable Lithography. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700325	6.8	1
76	Fully Organic Photocontrolled Deformable Mirror. <i>Advanced Optical Materials</i> , 2018 , 6, 1800361	8.1	1
75	Two-beam interference patterning of biodegradable magnesium alloy: Influence of number of passes and spots overlap. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018 , 36, 01A102	1.3	3
74	Sub-micrometric surface texturing of AZ31 Mg-alloy through two-beam direct laser interference patterning with a ns-pulsed green fiber laser. <i>Applied Surface Science</i> , 2017 , 423, 619-629	6.7	12
73	Photopolymers for holographic optical elements in astronomy 2017 ,		3
72	New Insight into the Fatigue Resistance of Photochromic 1,2-Diarylethenes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23592-23598	3.8	22
71	Spectral multiplexing using stacked volume-phase holographic gratings. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 469, 2412-2422	4.3	3
70	Process optimization for the manufacturing of holographic elements using Darol photopolymer. <i>Optical Materials</i> , 2017 , 73, 497-503	3.3	
69	Programmable CGH on photochromic plates coded with DMD generated masks. <i>Optics Express</i> , 2017 , 25, 6945-6953	3.3	8
68	Photochromic Polyurethanes Showing a Strong Change of Transparency and Refractive Index. <i>Polymers</i> , 2017 , 9,	4.5	9
67	Photosensitive chipless radio-frequency tag for low-cost monitoring of light-sensitive goods. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 839-845	8.5	9
66	Refractive index modulation in polymer film doped with diazo Meldrum acid. <i>Optical Materials</i> , 2016 , 58, 158-163	3.3	3
65	Light-induced dipole moment modulation in diarylethenes: a fundamental study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31154-31159	3.6	7
64	Programmable CGH on photochromic material using DMD 2016 ,		1
63	Photopolymeric films with highly tunable refractive index modulation for high precision diffractive optics. <i>Optical Materials Express</i> , 2016 , 6, 252	2.6	18
62	OPTICAL SPECTROSCOPY OF SDSS J004054.65-0915268: THREE POSSIBLE SCENARIOS FOR THE CLASSIFICATION. Az~ 5 BL LACERTAE, A BLUE FSRQ, OR A WEAK EMISSION LINE QUASAR. <i>Astronomical Journal</i> , 2016 , 151, 35	4.9	4
61	Zinc selenide-based large aperture photo-controlled deformable mirror. <i>Optics Letters</i> , 2016 , 41, 2573-53		3

60	The interplay of soft-hard substituents in photochromic diarylethenes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 325, 45-54	4.7	2
59	Photopolymer based VPHGs: from materials to sky results 2016 ,		1
58	Photo controlled deformable mirrors: materials choice and device modeling. <i>Optical Materials Express</i> , 2016 , 6, 620	2.6	5
57	Analysis of phase patterns in photochromic polyurethanes by a holographic approach. <i>Optical Materials Express</i> , 2015 , 5, 2281	2.6	3
56	Photochromic and photomechanical responses of an amorphous diarylethene-based polymer: a spectroscopic ellipsometry investigation of ultrathin films. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4692-4698 ²²	7.1	22
55	Photochromic point-diffraction inteferometer. <i>Optics and Lasers in Engineering</i> , 2014 , 56, 134-139	4.6	0
54	Project overview and update on WEAVE: the next generation wide-field spectroscopy facility for the William Herschel Telescope 2014 ,		35
53	A New Photopolymer-based VPHG for Astronomy: The Case of SN 2013fj. <i>Publications of the Astronomical Society of the Pacific</i> , 2014 , 126, 264-269	5	5
52	Echelle volume phase holographic gratings: experimental results 2014 ,		2
51	Approaches to the interferometric test of large flat mirrors: the case of the adaptive M4 for E-ELT 2014 ,		1
50	Highly homogeneous core-shell polyaniline nanofibers obtained by polymerisation on a wire-shaped template. <i>Polymer Chemistry</i> , 2014 , 5, 6779-6788	4.9	9
49	Volume phase holographic gratings for astronomy based on solid photopolymers 2014 ,		3
48	Understanding the mechanism of refractive index modulation in materials undergoing photo-Fries rearrangement. <i>Optical Materials</i> , 2013 , 35, 2283-2289	3.3	4
47	Modeling absorbance-modulation optical lithography in photochromic films. <i>Optics Letters</i> , 2013 , 38, 3024-7	3	10
46	Light-Controlled Resistance Modulation in a Photochromic Diarylethene-Carbon Nanotube Blend. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19483-19489	3.8	30
45	-Type Semiconducting Polymer Fibers.. <i>ACS Macro Letters</i> , 2012 , 1, 366-369	6.6	20
44	Photochromic Electret: A New Tool for Light Energy Harvesting. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 51-7	6.4	22
43	Characterization of photochromic computer-generated holograms for optical testing 2012 ,		3

42	Materials for VPHGs: practical considerations in the case of astronomical instrumentation 2012 ,			6
41	Photochromic materials for holography: issues and constraints 2012 ,			2
40	Photochromic polyurethanes for rewritable CGHs in optical testing. <i>Optics Express</i> , 2011 , 19, 4536-41	3.3		16
39	Photochromic polymers as a versatile tool for devices based on switchable absorption and other optical properties 2011 ,			2
38	Photochromism into optics: Opportunities to develop light-triggered optical elements. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2011 , 12, 106-125	16.4		63
37	Evolution of two acid steps sol-gel phases by FTIR. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 58, 209-217	2.3		15
36	Control of optical properties through photochromism: a promising approach to photonics. <i>Laser and Photonics Reviews</i> , 2011 , 5, 711-736	8.3		55
35	Diarylethene-based photochromic polyurethanes for multistate optical memories. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13223			33
34	Kinetics of photochromic conversion at the solid state: quantum yield of dithienylethene-based films. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 12184-93	2.8		33
33	Preparation of Nanofibers with Nanoporous Crystalline Phases by Electrospinning. <i>Soft Materials</i> , 2011 , 9, 303-312	1.7		1
32	Photochromic polymers for making volume phase holographic gratings: between theory and practice 2010 ,			3
31	Nylon Nanofibrous Biosensors for Glucose Determination. <i>Electroanalysis</i> , 2010 , 22, 1056-1060	3		15
30	Enhancing the light driven modulation of the refractive index in organic photochromic materials: A quantum chemical strategy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 214, 61-68	4.7		9
29	Composite polyamide 6/polypyrrole conductive nanofibers. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 453-8	4.8		44
28	New fast synthesis route for symmetric and asymmetric phenyl-substituted photochromic dithienylethenes bearing functional groups such as alcohols, carboxylic acids, or amines. <i>Tetrahedron Letters</i> , 2009 , 50, 1614-1617	2		32
27	Modulation of the refractive index by photoisomerization of diarylethenes: theoretical modeling. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 7473-80	2.8		22
26	Realization of Photochromic-Polymeric Films for Optical Applications. <i>Advances in Science and Technology</i> , 2008 , 55, 1-6	0.1		6
25	Three-levels conductance switching in an organic memory cell. <i>Thin Solid Films</i> , 2008 , 516, 7680-7684	2.2		8

24	Disposable Electrospun Electrodes Based on Conducting Nanofibers. <i>Electroanalysis</i> , 2008 , 20, 1374-1377		16
23	Optical Features of Substituted Phenyl End-Capped Oligothiophenes. <i>The Open Chemical Physics Journal</i> , 2008 , 1, 23-28		11
22	Strong orientation of polymer chains and small photochromic molecules in polyamide 6 electrospun fibers. <i>ChemPhysChem</i> , 2007 , 8, 510-4	3.2	30
21	Modification of surface properties of electrospun polyamide nanofibers by means of a perfluorinated acridine. <i>Applied Surface Science</i> , 2007 , 253, 8360-8364	6.7	25
20	Electrospun polyalkylthiophene/polyethyleneoxide fibers: Optical characterization. <i>Synthetic Metals</i> , 2007 , 157, 276-281	3.6	50
19	Challenges in optics for Extremely Large Telescope instrumentation. <i>Astronomische Nachrichten</i> , 2006 , 327, 649-673	0.7	12
18	Organic memory device based on 3,3'-bis-(3,5-di-tert-butyl-4-methoxyphenyl)-2,2'-bithiophene with high endurance and robustness to ambient air operation. <i>Applied Physics Letters</i> , 2006 , 89, 2435-19	3.4	22
17	New developments in photochromic materials for volume phase holographic gratings 2006 , 6273, 1213		1
16	Diarylethenes with Electro-active Substituents for Optical Memories: A Theoretical Study and the Realization of a Memory with a Readout in the Mid Infrared. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 431, 487-493	0.5	2
15	Diarylethenes with Electroactive Substituents: A Theoretical Study to Understand the Effect on the IR Spectrum and a Simple Way to Read Optical Memory in the Mid-IR. <i>Chemistry of Materials</i> , 2005 , 17, 869-874	9.6	40
14	Smart focal plane masks: rewritable photochromic films for astronomical multi-object spectroscopy. <i>Astronomische Nachrichten</i> , 2005 , 326, 370-374	0.7	12
13	Diarylethenes in Astrophysics: From Materials to Devices. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 430, 187-192	0.5	7
12	Experimental CC stretching phonon dispersion curves and electron phonon coupling in polyene derivatives. <i>Journal of Chemical Physics</i> , 2004 , 120, 1450-7	3.9	21
11	Poly(dithienylethene-alt-1,4-divinylbenzene)s: Increasing the Molecular Weights in Diarylethene Photochromic Polymers. <i>Advanced Functional Materials</i> , 2004 , 14, 1129-1133	15.6	25
10	Effect of Substitution on the Change of Refractive Index in Dithienylethenes: An Ellipsometric Study. <i>Advanced Functional Materials</i> , 2004 , 14, 357-363	15.6	78
9	Rewriting optical elements 2004 , 5494, 545		2
8	VPHG in the cold 2003 , 4842, 22		3
7	Molecules with quinoid ground state: a new class of large molecular optical nonlinearities?. <i>Synthetic Metals</i> , 2003 , 138, 357-362	3.6	18

6	Phonon confinement and dispersion curves in finite polyene derivatives. <i>Synthetic Metals</i> , 2003 , 139, 881-884	3.6	6
5	Non-linear optical properties of cyanine systems. <i>Synthetic Metals</i> , 2001 , 124, 183-184	3.6	5
4	Molecules with enhanced negative third order vibrational polarizabilities: polymethine dyes and their vibrational spectra. <i>Synthetic Metals</i> , 2001 , 125, 81-91	3.6	13
3	Solar UVB/A Radiation is Highly Effective in Inactivating SARS-CoV-2		2
2	UV-C irradiation is highly effective in inactivating SARS-CoV-2 replication		9
1	UV-A and UV-B Can Neutralize SARS-CoV-2 Infectivity		3