

Richard A Evans

List of Publications by Citations

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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.

107
papers

4,477
citations

37
h-index

63
g-index

121
ext. papers

4,867
ext. citations

6.1
avg, IF

5.6
L-index

#	Paper	IF	Citations
107	Photo-responsive systems and biomaterials: photochromic polymers, light-triggered self-assembly, surface modification, fluorescence modulation and beyond. <i>Polymer Chemistry</i> , 2010 , 1, 37-54	4.9	444
106	Three-dimensional deep sub-diffraction optical beam lithography with 9 nm feature size. <i>Nature Communications</i> , 2013 , 4, 2061	17.4	315
105	The Rise of Azide-Alkyne 1,3-Dipolar Click Cycloaddition and its Application to Polymer Science and Surface Modification. <i>Australian Journal of Chemistry</i> , 2007 , 60, 384	1.2	277
104	The generic enhancement of photochromic dye switching speeds in a rigid polymer matrix. <i>Nature Materials</i> , 2005 , 4, 249-53	27	208
103	Targeting of cancer cells using click-functionalized polymer capsules. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15881-3	16.4	151
102	Synthesis of Well-Defined Polystyrene with Primary Amine End Groups through the Use of Phthalimido-Functional RAFT Agents. <i>Macromolecules</i> , 2006 , 39, 5293-5306	5.5	144
101	Factors Influencing Photochromism of Spiro-Compounds Within Polymeric Matrices. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 2003 , 43, 547-579		100
100	High-photosensitive resin for super-resolution direct-laser-writing based on photoinhibited polymerization. <i>Optics Express</i> , 2011 , 19, 19486-94	3.3	90
99	Facile One-step Micropatterning Using Photodegradable Methacrylated Gelatin Hydrogels for Improved Cardiomyocyte Organization and Alignment. <i>Advanced Functional Materials</i> , 2015 , 25, 977-986	15.6	83
98	Electrochemically protected copper(I)-catalyzed azide-alkyne cycloaddition. <i>ChemBioChem</i> , 2008 , 9, 1481-6	5.6	83
97	Photoinitiated alkyne-azide click and radical cross-linking reactions for the patterning of PEG hydrogels. <i>Biomacromolecules</i> , 2012 , 13, 889-95	6.9	82
96	Photodegradable Gelatin-Based Hydrogels Prepared by Bioorthogonal Click Chemistry for Cell Encapsulation and Release. <i>Biomacromolecules</i> , 2015 , 16, 2246-53	6.9	73
95	Reversible addition-fragmentation chain transfer synthesis of amidine-based, CO ₂ -responsive homo and AB diblock (Co)polymers comprised of histamine and their gas-triggered self-assembly in water. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 394-404	2.5	69
94	Free radical polymers with tunable and selective bio- and chemical degradability. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9805-12	16.4	68
93	Rapid Photochromic Switching in a Rigid Polymer Matrix Using Living Radical Polymerization. <i>Macromolecules</i> , 2006 , 39, 1391-1396	5.5	67
92	Metal-free and MRI visible theranostic lyotropic liquid crystal nitroxide-based nanoparticles. <i>Biomaterials</i> , 2012 , 33, 2723-33	15.6	66
91	Absorption enhancement of oligothiophene dyes through the use of a cyanopyridone acceptor group in solution-processed organic solar cells. <i>Chemical Communications</i> , 2012 , 48, 1889-91	5.8	65

90	Free-Radical Ring-Opening Polymerization of Cyclic Allylic Sulfides. <i>Macromolecules</i> , 1996 , 29, 6983-6989	5.5	63
89	Superior Photochromic Performance of Naphthopyrans in a Rigid Host Matrix Using Polymer Conjugation: Fast, Dark, and Tunable. <i>Macromolecules</i> , 2008 , 41, 1206-1214	5.5	58
88	New Free-Radical Ring-Opening Acrylate Monomers. <i>Macromolecules</i> , 1994 , 27, 7935-7937	5.5	58
87	CO ₂ triggering and controlling orthogonally multiresponsive photochromic systems. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10748-55	16.4	53
86	2,5-Dithiacyclopentylideneketene and ethenedithione, S:C:C:S, generated by flash vacuum pyrolysis. <i>Journal of the American Chemical Society</i> , 1991 , 113, 3130-3135	16.4	53
85	HCN dimers: iminoacetonitrile and N-cyanomethanimine. <i>Journal of the American Chemical Society</i> , 1991 , 113, 7261-7276	16.4	53
84	Comprehensive Modulation of Naphthopyran Photochromism in a Rigid Host Matrix by Applying Polymer Conjugation. <i>Macromolecules</i> , 2009 , 42, 1500-1511	5.5	52
83	Optimizing the photochromic performance of naphthopyrans in a rigid host matrix using poly(dimethylsiloxane) conjugation. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5612		50
82	Photochromic Polymer Conjugates: The Importance of Macromolecular Architecture in Controlling Switching Speed within a Polymer Matrix. <i>Macromolecules</i> , 2010 , 43, 249-261	5.5	48
81	Rewritable polarization-encoded multilayer data storage in 2,5-dimethyl-4-(p-nitrophenylazo)anisole doped polymer. <i>Optics Letters</i> , 2007 , 32, 277-9	3	48
80	Control of Photochromism through Local Environment Effects Using Living Radical Polymerization (ATRP). <i>Macromolecules</i> , 2004 , 37, 9664-9666	5.5	47
79	Cyanomethylbenzoic acid: an acceptor for donor-acceptor chromophores used in dye-sensitized solar cells. <i>ChemSusChem</i> , 2013 , 6, 256-60	8.3	45
78	The effect of direct amine substituted push-pull oligothiophene chromophores on dye-sensitized and bulk heterojunction solar cells performance. <i>Tetrahedron</i> , 2013 , 69, 3584-3592	2.4	44
77	Surface "click" chemistry on brominated plasma polymer thin films. <i>Langmuir</i> , 2010 , 26, 3388-93	4	44
76	2-Pyridylnitrene-1,3-Diazacyclohepta-1,2,4,6-tetraene Rearrangements in the Trifluoromethyl-2-pyridyl Azide Series 1a. <i>Journal of the American Chemical Society</i> , 1996 , 118, 4009-4017	16.4	44
75	Introducing manganese complexes as redox mediators for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 12021-8	3.6	43
74	The Use of Block Copolymers to Systematically Modify Photochromic Behavior. <i>Macromolecules</i> , 2006 , 39, 9562-9570	5.5	42
73	Enhanced photovoltaic efficiency via light-triggered self-assembly. <i>Chemical Communications</i> , 2013 , 49, 6552-4	5.8	38

72	Spiropyran-amidine: a molecular canary for visual detection of carbon dioxide gas. <i>Chemistry - A European Journal</i> , 2011 , 17, 11399-404	4.8	38
71	Free-Radical Ring-Opening Polymerization of Cyclic Allylic Sulfides. 2. Effect of Substituents on Seven- and Eight-Membered Ring Low Shrink Monomers. <i>Macromolecules</i> , 2000 , 33, 6722-6731	5.5	37
70	Photodegradable Hydrogels Made via RAFT. <i>Macromolecules</i> , 2012 , 45, 8387-8400	5.5	36
69	Dipivaloylketene and its unusual dimerization to a permanently stable .alpha.-oxoketene. <i>Journal of the American Chemical Society</i> , 1991 , 113, 4234-4237	16.4	35
68	Controlling Molecular Mobility in Polymer Matrices: Synchronizing Switching Speeds of Multiple Photochromic Dyes. <i>Macromolecules</i> , 2010 , 43, 8488-8501	5.5	34
67	Tunable Photodynamic Switching of DArE@PAF-1 for Carbon Capture. <i>Advanced Functional Materials</i> , 2015 , 25, 4405-4411	15.6	33
66	Free radical ring-opening polymerization of cyclic allylic sulfides: Liquid monomers with low polymerization volume shrinkage. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 202-215	2.5	33
65	Molecular engineering for panchromatic absorbing oligothiophene donor-acceptor organic semiconductors. <i>Tetrahedron</i> , 2012 , 68, 9440-9447	2.4	32
64	Two-photon-induced three-dimensional optical data storage in CdS quantum-dot doped photopolymer. <i>Applied Physics Letters</i> , 2007 , 90, 161116	3.4	32
63	Research Trends in Photochromism: Control of Photochromism in Rigid Polymer Matrices and other Advances. <i>Australian Journal of Chemistry</i> , 2005 , 58, 825	1.2	31
62	Non-fullerene acceptors based on central naphthalene diimide flanked by rhodanine or 1,3-indanedione. <i>Chemical Communications</i> , 2017 , 53, 7080-7083	5.8	30
61	Prebiotic-chemistry inspired polymer coatings for biomedical and material science applications. <i>NPG Asia Materials</i> , 2015 , 7, e225-e225	10.3	30
60	An H-shaped, small molecular non-fullerene acceptor for efficient organic solar cells with an impressive open-circuit voltage of 1.17 V. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1600-1606	7.8	28
59	Surface grafting of electrospun fibers using ATRP and RAFT for the control of biointerfacial interactions. <i>Biointerphases</i> , 2013 , 8, 16	1.8	28
58	Two-photon energy transfer enhanced three-dimensional optical memory in quantum-dot and azo-dye doped polymers. <i>Applied Physics Letters</i> , 2008 , 92, 063309	3.4	27
57	Polymer coatings that display specific biological signals while preventing nonspecific interactions. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 370-9	5.4	26
56	Chain Transfer in the Sulfur-Centered Free Radical Ring-Opening Polymerization of 3-Methylene-6-methyl-1,5-dithiacyclooctane. <i>Macromolecules</i> , 2000 , 33, 9553-9560	5.5	25
55	Copolymerization Behavior of 7-Methylene-2-methyl-1,5-dithiacyclooctane: Reversible Cross-Propagation. <i>Macromolecules</i> , 2001 , 34, 3869-3876	5.5	25

54	Alkylation of spiropyran moiety provides reversible photo-control over nanostructured soft materials. <i>Biointerphases</i> , 2012 , 7, 3	1.8	24
53	Cyanopyridone flanked the tetraphenylethylene to generate an efficient, three-dimensional small molecule non-fullerene electron acceptor. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2511-2518	7.8	24
52	Adhesive Prebiotic Chemistry Inspired Coatings for Bone Contacting Applications. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 793-806	5.5	23
51	Band-gap tuning of pendant polymers for organic light-emitting devices and photovoltaic applications. <i>Synthetic Metals</i> , 2011 , 161, 856-863	3.6	23
50	Control of polymer structure by chain transfer processes. <i>Macromolecular Symposia</i> , 1996 , 111, 1-11	0.8	23
49	Ultra-fast aqueous polymerisation of acrylamides by high power visible light direct photoactivation RAFT polymerisation. <i>Polymer Chemistry</i> , 2018 , 9, 60-68	4.9	23
48	An efficient non-fullerene acceptor based on central and peripheral naphthalene diimides. <i>Chemical Communications</i> , 2018 , 54, 5062-5065	5.8	21
47	Naphthalene diimide-based non-fullerene acceptors flanked by open-ended and aromatizable acceptor functionalities. <i>Chemical Communications</i> , 2017 , 53, 11157-11160	5.8	20
46	Low-Distortion Holographic Data Storage Media Using Free-Radical Ring-Opening Polymerization. <i>Advanced Functional Materials</i> , 2009 , 19, 3560-3566	15.6	20
45	Synthesis of Carboxylic Acid and Ester Mid-Functionalized Polymers using RAFT Polymerization and ATRP. <i>Australian Journal of Chemistry</i> , 2006 , 59, 763	1.2	20
44	Trifluoromethyl-substituted dehydrodiazepines and cyanopyrroles from azido-/tetrazolo-pyridines. <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 1062		20
43	Small molecules containing rigidified thiophenes and a cyanopyridone acceptor unit for solution-processable bulk-heterojunction solar cells. <i>Dyes and Pigments</i> , 2015 , 119, 122-132	4.6	19
42	Generating a three-dimensional non-fullerene electron acceptor by combining inexpensive spiro[fluorene-9,9'-xanthene] and cyanopyridone functionalities. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1090-1096	7.8	18
41	Insertion of a naphthalenediimide unit in a metal-free donor-acceptor organic sensitizer for efficiency enhancement of a dye-sensitized solar cell. <i>Dyes and Pigments</i> , 2016 , 134, 83-90	4.6	18
40	Donor-acceptor-acceptor-based non-fullerene acceptors comprising terminal chromen-2-one functionality for efficient bulk-heterojunction devices. <i>Dyes and Pigments</i> , 2017 , 146, 502-511	4.6	18
39	Astrochemistry and Astrobiology: Materials Science in Wonderland?. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	17
38	Hydrogen cyanide dimers: photoelectron spectrum of iminoacetonitrile. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 4801-4804		17
37	New organic sensitizers using 4-(cyanomethyl)benzoic acid as an acceptor group for dye-sensitized solar cell applications. <i>Dyes and Pigments</i> , 2015 , 113, 280-288	4.6	15

36	Deposition of Aminomalononitrile-Based Films: Kinetics, Chemistry, and Morphology. <i>Langmuir</i> , 2019 , 35, 9896-9903	4	15
35	Substituent effects on the chain-transfer behavior of 7-methylene-2-methyl-1,5-dithiacyclooctane in the presence of disulfides and thiols. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 4421-4425	2.5	15
34	An efficient, three-dimensional non-fullerene electron acceptor: functionalizing tetraphenylethylene with naphthalene diimides. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1231-1237	7.8	14
33	Quantum-rod dispersed photopolymers for multi-dimensional photonic applications. <i>Optics Express</i> , 2009 , 17, 2954-61	3.3	14
32	Tailoring Photochromic Performance of Polymer-Dye Conjugates Using Living Radical Polymerization (ATRP). <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 430, 273-279	0.5	14
31	Electrochemical deposition of aminomalonitrile based films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 552, 124-129	5.1	14
30	Ultra-high molecular weight linear coordination polymers with terpyridine ligands. <i>Chemical Science</i> , 2019 , 10, 6174-6183	9.4	13
29	Spiropyran, chromene and spirooxazine, mélange trois: Molecular logic systems through selective and reversible deactivation of photochromism mediated by CO ₂ gas. <i>Dyes and Pigments</i> , 2012 , 92, 817-824	4.6	13
28	Pulsed Laser Copolymerization of Ring-Opening Cyclic Allylic Sulfide Monomers with Methyl Methacrylate and Styrene. <i>Macromolecules</i> , 2002 , 35, 2474-2480	5.5	13
27	Cleavage of macromolecular RAFT chain transfer agents by sodium azide during characterization by aqueous GPC. <i>Polymer Chemistry</i> , 2017 , 8, 3702-3711	4.9	12
26	The use of poly(alkylene oxide)s to achieve fast and controlled photochromic switching in rigid matrices. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 1434-1444	2.5	12
25	The application of a photochromic probe to monitor the self-assembly of thermosensitive block copolymers. <i>Soft Matter</i> , 2011 , 7, 2687	3.6	12
24	Synthesis and properties of 1,3,3-trimethylspiro[indoline-2,3'-naphtho[2,1-b][1,4]oxazin]-6'-amine, a novel, red colouring photochromic spirooxazine. <i>Tetrahedron Letters</i> , 2010 , 51, 2195-2197	2	12
23	Polymeric Drift Control Adjuvants for Agricultural Spraying. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 2223-2242	2.6	11
22	Remarkable Solvent Effects of Oxygen- and Sulfur-Containing Compounds on the Propagation Rate of Methyl Methacrylate. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005 , 219, 267-281	3.1	11
21	Photochromic spirooxazines functionalized with oligomers: investigation of core-oligomer interactions and photomerocyanine isomer interconversion using NMR spectroscopy and DFT. <i>Journal of Organic Chemistry</i> , 2010 , 75, 2851-60	4.2	10
20	Preparation and photochromic performance characteristics of polyester-naphthopyran conjugates in a rigid host matrix. <i>Dyes and Pigments</i> , 2013 , 97, 162-167	4.6	9
19	Enhancing the efficiency of solution-processable bulk-heterojunction devices via a three-dimensional molecular architecture comprising triphenylamine and cyanopyridone. <i>Dyes and Pigments</i> , 2017 , 137, 126-134	4.6	9

18	Fast switching immobilized photochromic dyes. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 476-486	2.5	7
17	Type-II core/shell nanoparticle induced photorefractivity. <i>Applied Physics Letters</i> , 2011 , 98, 231107	3.4	6
16	Films and Materials Derived from Aminomalononitrile. <i>Processes</i> , 2021 , 9, 82	2.9	6
15	The first connection of carbonyl-bridged triarylamine and diketopyrrolopyrrole functionalities to generate a three-dimensional, non-fullerene electron acceptor. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 2176-2183	7.8	5
14	Enhanced photorefractive performance in CdSe quantum-dot-dispersed poly(styrene-co-acrylonitrile) polymers. <i>Applied Physics Letters</i> , 2010 , 96, 253302	3.4	5
13	Synthesis of Green Colored Photochromic 6?-Arylamino Spiro [2H]Naphth[1,2-b]oxazines. <i>Synthetic Communications</i> , 2010 , 40, 3618-3628	1.7	5
12	Symmetrical and unsymmetrical donor-acceptor-donor organic dyes: Design, synthesis and characterization. Engineering panchromatic absorbance. <i>Dyes and Pigments</i> , 2014 , 108, 15-23	4.6	4
11	The use of polyhedral oligomeric silsesquioxane (POSS) as a soluble support for organic synthesis: A case study with a POSS-bound isocyanate scavenger reagent. <i>Tetrahedron Letters</i> , 2010 , 51, 4677-4680 ²		3
10	Enhanced Capacitive Humidity Sensing Performance at Room Temperature via Hydrogen Bonding of Cyanopyridone-Based Oligothiophene Donor. <i>Chemosensors</i> , 2021 , 9, 320	4	3
9	Direct connection of an amine to oligothiophene to generate push-pull chromophores for organic photovoltaic applications. <i>Dyes and Pigments</i> , 2019 , 162, 315-323	4.6	3
8	Enhanced Photovoltaic Efficiency via Control of Self-Assembly in Cyanopyridone-Based Oligothiophene Donors. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 919-924	6.4	3
7	Naphthalene diimide-based electron transport materials for perovskite solar cells. <i>Journal of Materials Chemistry A</i> ,	13	2
6	Functionalization of spiro[fluorene-9,9?-xanthene] with diketopyrrolopyrrole to generate a promising, three-dimensional non-fullerene acceptor. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3209-3215	7.8	2
5	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
4	4D Ultra-High-Density Long Data Storage Supported by a Solid-State Optically Active Polymeric Material with High Thermal Stability. <i>Advanced Optical Materials</i> , 2021 , 9, 2100487	8.1	2
3	Linear Coordination Polymer Synthesis from Bis-Catechol Functionalized RAFT Polymers. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000366	4.8	1
2	Metal-Organic Frameworks: Tunable Photodynamic Switching of DArE@PAF-1 for Carbon Capture (Adv. Funct. Mater. 28/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 4559-4559	15.6	
1	Mr Big of Bankstown: The Scandalous Fitzpatrick and Browne Affair. <i>Australian Historical Studies</i> , 2013 , 44, 161-162	0.2	

