Richard A Evans

List of Publications by Year in Descending Order

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	Enhanced Capacitive Humidity Sensing Performance at Room Temperature via Hydrogen Bonding of Cyanopyridone-Based Oligothiophene Donor. *Chemosensors*, **2021**, 9, 320	4	3
106	Cyclic allylic sulfide based photopolymer for holographic recording showing high refractive index modulation. *Journal of Polymer Science*, **2021**, 59, 1399-1413	2.4	2
105	4D Ultra-High-Density Long Data Storage Supported by a Solid-State Optically Active Polymeric Material with High Thermal Stability. *Advanced Optical Materials*, **2021**, 9, 2100487	8.1	2
104	Films and Materials Derived from Aminomalononitrile. *Processes*, **2021**, 9, 82	2.9	6
103	Enhanced Photovoltaic Efficiency via Control of Self-Assembly in Cyanopyridone-Based Oligothiophene Donors. *Journal of Physical Chemistry Letters*, **2021**, 12, 919-924	6.4	3
102	The first connection of carbonyl-bridged triarylamine and diketopyrrolopyrrole functionalities to generate a three-dimensional, non-fullerene electron acceptor. *Materials Chemistry Frontiers*, **2020**, 4, 2176-2183	7.8	5
101	Linear Coordination Polymer Synthesis from Bis-Catechol Functionalized RAFT Polymers. *Macromolecular Rapid Communications*, **2020**, 41, e2000366	4.8	1
100	Functionalization of spiro[fluorene-9,9?-xanthene] with diketopyrrolopyrrole to generate a promising, three-dimensional non-fullerene acceptor. *Materials Chemistry Frontiers*, **2020**, 4, 3209-3215	7.8	2
99	Astrochemistry and Astrobiology: Materials Sciencein Wonderland?. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	17
98	Ultra-high molecular weight linear coordination polymers with terpyridine ligands. *Chemical Science* , **2019**, 10, 6174-6183	9.4	13
97	An efficient, three-dimensional non-fullerene electron acceptor: functionalizing tetraphenylethylene with naphthalene diimides. *Materials Chemistry Frontiers*, **2019**, 3, 1231-1237	7.8	14
96	Deposition of Aminomalononitrile-Based Films: Kinetics, Chemistry, and Morphology. *Langmuir*, **2019**, 35, 9896-9903	4	15
95	Direct connection of an amine to oligothiophene to generate push-pull chromophores for organic photovoltaic applications. *Dyes and Pigments*, **2019**, 162, 315-323	4.6	3
94	An efficient non-fullerene acceptor based on central and peripheral naphthalene diimides. *Chemical Communications*, **2018**, 54, 5062-5065	5.8	21
93	Generating a three-dimensional non-fullerene electron acceptor by combining inexpensive spiro[fluorene-9,9?-xanthene] and cyanopyridone functionalities. *Materials Chemistry Frontiers*, **2018**, 2, 1090-1096	7.8	18
92	Ultra-fast aqueous polymerisation of acrylamides by high power visible light direct photoactivation RAFT polymerisation. *Polymer Chemistry*, **2018**, 9, 60-68	4.9	23
91	Electrochemical deposition of aminomalonitrile based films. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 552, 124-129	5.1	14

90	Cleavage of macromolecular RAFT chain transfer agents by sodium azide during characterization by aqueous GPC. *Polymer Chemistry*, **2017**, 8, 3702-3711	4.9	12
89	Non-fullerene acceptors based on central naphthalene diimide flanked by rhodanine or 1,3-indanedione. *Chemical Communications*, **2017**, 53, 7080-7083	5.8	30
88	An H-shaped, small molecular non-fullerene acceptor for efficient organic solar cells with an impressive open-circuit voltage of 1.17 V. *Materials Chemistry Frontiers*, **2017**, 1, 1600-1606	7.8	28
87	Adhesive Prebiotic Chemistry Inspired Coatings for Bone Contacting Applications. *ACS Biomaterials Science and Engineering*, **2017**, 3, 793-806	5.5	23
86	Naphthalene diimide-based non-fullerene acceptors flanked by open-ended and aromatizable acceptor functionalities. *Chemical Communications*, **2017**, 53, 11157-11160	5.8	20
85	Cyanopyridone flanked the tetraphenylethylene to generate an efficient, three-dimensional small molecule non-fullerene electron acceptor. *Materials Chemistry Frontiers*, **2017**, 1, 2511-2518	7.8	24
84	Donor–acceptor–acceptor-based non-fullerene acceptors comprising terminal chromen-2-one functionality for efficient bulk-heterojunction devices. *Dyes and Pigments*, **2017**, 146, 502-511	4.6	18
83	Enhancing the efficiency of solution-processable bulk-heterojunction devices via a three-dimensional molecular architecture comprising triphenylamine and cyanopyridone. *Dyes and Pigments*, **2017**, 137, 126-134	4.6	9
82	Polymeric Drift Control Adjuvants for Agricultural Spraying. *Macromolecular Chemistry and Physics*, **2016**, 217, 2223-2242	2.6	11
81	Insertion of a naphthalenediimide unit in a metal-free donor–acceptor organic sensitizer for efficiency enhancement of a dye-sensitized solar cell. *Dyes and Pigments*, **2016**, 134, 83-90	4.6	18
80	Small molecules containing rigidified thiophenes and a cyanopyridone acceptor unit for solution-processable bulk-heterojunction solar cells. *Dyes and Pigments*, **2015**, 119, 122-132	4.6	19
79	New organic sensitizers using 4-(cyanomethyl)benzoic acid as an acceptor group for dye-sensitized solar cell applications. *Dyes and Pigments*, **2015**, 113, 280-288	4.6	15
78	Metal-Organic Frameworks: Tunable Photodynamic Switching of DArE@PAF-1 for Carbon Capture (Adv. Funct. Mater. 28/2015). *Advanced Functional Materials*, **2015**, 25, 4559-4559	15.6	
77	Tunable Photodynamic Switching of DArE@PAF-1 for Carbon Capture. *Advanced Functional Materials*, **2015**, 25, 4405-4411	15.6	33
76	Photodegradable Gelatin-Based Hydrogels Prepared by Bioorthogonal Click Chemistry for Cell Encapsulation and Release. *Biomacromolecules*, **2015**, 16, 2246-53	6.9	73
75	Facile One-step Micropatterning Using Photodegradable Methacrylated Gelatin Hydrogels for Improved Cardiomyocyte Organization and Alignment. *Advanced Functional Materials*, **2015**, 25, 977-986	15.6	83
74	Prebiotic-chemistry inspired polymer coatings for biomedical and material science applications. *NPG Asia Materials*, **2015**, 7, e225-e225	10.3	30
73	Symmetrical and unsymmetrical donor–acceptor–donor organic dyes: Design, synthesis and characterization. Engineering panchromic absorbance. *Dyes and Pigments*, **2014**, 108, 15-23	4.6	4

72	Introducing manganese complexes as redox mediators for dye-sensitized solar cells. *Physical Chemistry Chemical Physics*, **2014**, 16, 12021-8	3.6	43
71	Surface grafting of electrospun fibers using ATRP and RAFT for the control of biointerfacial interactions. *Biointerphases*, **2013**, 8, 16	1.8	28
70	Enhanced photovoltaic efficiency via light-triggered self-assembly. *Chemical Communications*, **2013**, 49, 6552-4	5.8	38
69	Reversible addition–fragmentation chain transfer synthesis of amidine-based, CO2-responsive homo and AB diblock (Co)polymers comprised of histamine and their gas-triggered self-assembly in water. *Journal of Polymer Science Part A*, **2013**, 51, 394-404	2.5	69
68	Preparation and photochromic performance characteristics of polyester-naphthopyran conjugates in a rigid host matrix. *Dyes and Pigments*, **2013**, 97, 162-167	4.6	9
67	The effect of direct amine substituted push–pull oligothiophene chromophores on dye-sensitized and bulk heterojunction solar cells performance. *Tetrahedron*, **2013**, 69, 3584-3592	2.4	44
66	Cyanomethylbenzoic acid: an acceptor for donor–acceptor chromophores used in dye-sensitized solar cells. *ChemSusChem*, **2013**, 6, 256-60	8.3	45
65	Three-dimensional deep sub-diffraction optical beam lithography with 9 nm feature size. *Nature Communications*, **2013**, 4, 2061	17.4	315
64	Mr Big of Bankstown: The Scandalous Fitzpatrick and Browne Affair. *Australian Historical Studies*, **2013**, 44, 161-162	0.2	
63	Spiropyran, chromene and spirooxazine, mélange à trois: Molecular logic systems through selective and reversible deactivation of photochromism mediated by CO2 gas. *Dyes and Pigments*, **2012**, 92, 817-824	4.6	13
62	Metal-free and MRI visible theranostic lyotropic liquid crystal nitroxide-based nanoparticles. *Biomaterials*, **2012**, 33, 2723-33	15.6	66
61	Polymer coatings that display specific biological signals while preventing nonspecific interactions. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 370-9	5.4	26
60	Alkylation of spiropyran moiety provides reversible photo-control over nanostructured soft materials. *Biointerphases*, **2012**, 7, 3	1.8	24
59	Molecular engineering for panchromatic absorbing oligothiophene donor–acceptor organic semiconductors. *Tetrahedron*, **2012**, 68, 9440-9447	2.4	32
58	Photodegradable Hydrogels Made via RAFT. *Macromolecules*, **2012**, 45, 8387-8400	5.5	36
57	Absorption enhancement of oligothiophene dyes through the use of a cyanopyridone acceptor group in solution-processed organic solar cells. *Chemical Communications*, **2012**, 48, 1889-91	5.8	65
56	The use of poly(alkylene oxide)s to achieve fast and controlled photochromic switching in rigid matrices. *Journal of Polymer Science Part A*, **2012**, 50, 1434-1444	2.5	12
55	Photoinitiated alkyne-azide click and radical cross-linking reactions for the patterning of PEG hydrogels. *Biomacromolecules*, **2012**, 13, 889-95	6.9	82

54	High-photosensitive resin for super-resolution direct-laser-writing based on photoinhibited polymerization. *Optics Express*, **2011**, 19, 19486-94	3.3	90
53	Band-gap tuning of pendant polymers for organic light-emitting devices and photovoltaic applications. *Synthetic Metals*, **2011**, 161, 856-863	3.6	23
52	Fast switching immobilized photochromic dyes. *Journal of Polymer Science Part A*, **2011**, 49, 476-486	2.5	7
51	Spiropyran-amidine: a molecular canary for visual detection of carbon dioxide gas. *Chemistry - A European Journal*, **2011**, 17, 11399-404	4.8	38
50	Type-II core/shell nanoparticle induced photorefractivity. *Applied Physics Letters*, **2011**, 98, 231107	3.4	6
49	The application of a photochromic probe to monitor the self-assembly of thermosensitive block copolymers. *Soft Matter*, **2011**, 7, 2687	3.6	12
48	Enhanced photorefractive performance in CdSe quantum-dot-dispersed poly(styrene-co-acrylonitrile) polymers. *Applied Physics Letters*, **2010**, 96, 253302	3.4	5
47	Synthesis of Green Colored Photochromic 6?-Arylamino Spiro [2H]Naphth[1,2-b]oxazines. *Synthetic Communications*, **2010**, 40, 3618-3628	1.7	5
46	Surface "click" chemistry on brominated plasma polymer thin films. *Langmuir*, **2010**, 26, 3388-93	4	44
45	Photochromic spirooxazines functionalized with oligomers: investigation of core-oligomer interactions and photomerocyanine isomer interconversion using NMR spectroscopy and DFT. *Journal of Organic Chemistry*, **2010**, 75, 2851-60	4.2	10
44	Targeting of cancer cells using click-functionalized polymer capsules. *Journal of the American Chemical Society*, **2010**, 132, 15881-3	16.4	151
43	CO2 triggering and controlling orthogonally multiresponsive photochromic systems. *Journal of the American Chemical Society*, **2010**, 132, 10748-55	16.4	53
42	Controlling Molecular Mobility in Polymer Matrices: Synchronizing Switching Speeds of Multiple Photochromic Dyes. *Macromolecules*, **2010**, 43, 8488-8501	5.5	34
41	Photo-responsive systems and biomaterials: photochromic polymers, light-triggered self-assembly, surface modification, fluorescence modulation and beyond. *Polymer Chemistry*, **2010**, 1, 37-54	4.9	444
40	Photochromic Polymer Conjugates: The Importance of Macromolecular Architecture in Controlling Switching Speed within a Polymer Matrix. *Macromolecules*, **2010**, 43, 249-261	5.5	48
39	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. *Tetrahedron Letters*, **2010**, 51, 2195-2197	2	12
38	The use of polyhedral oligomeric silsesquioxane (POSS) as a soluble support for organic synthesis: A case study with a POSS-bound isocyanate scavenger reagent. *Tetrahedron Letters*, **2010**, 51, 4677-4680	2	3
37	Low-Distortion Holographic Data Storage Media Using Free-Radical Ring-Opening Polymerization. *Advanced Functional Materials*, **2009**, 19, 3560-3566	15.6	20

36	Free radical polymers with tunable and selective bio- and chemical degradability. *Journal of the American Chemical Society*, **2009**, 131, 9805-12	16.4	68
35	Quantum-rod dispersed photopolymers for multi-dimensional photonic applications. *Optics Express*, **2009**, 17, 2954-61	3.3	14
34	Comprehensive Modulation of Naphthopyran Photochromism in a Rigid Host Matrix by Applying Polymer Conjugation. *Macromolecules*, **2009**, 42, 1500-1511	5.5	52
33	Optimizing the photochromic performance of naphthopyrans in a rigid host matrix using poly(dimethylsiloxane) conjugation. *Journal of Materials Chemistry*, **2009**, 19, 5612		50
32	Superior Photochromic Performance of Naphthopyrans in a Rigid Host Matrix Using Polymer Conjugation: Fast, Dark, and Tunable. *Macromolecules*, **2008**, 41, 1206-1214	5.5	58
31	Two-photon energy transfer enhanced three-dimensional optical memory in quantum-dot and azo-dye doped polymers. *Applied Physics Letters*, **2008**, 92, 063309	3.4	27
30	Electrochemically protected copper(I)-catalyzed azide-alkyne cycloaddition. *ChemBioChem*, **2008**, 9, 1481-6	3.6	83
29	The Rise of Azide–Alkyne 1,3-Dipolar "Click" Cycloaddition and its Application to Polymer Science and Surface Modification. *Australian Journal of Chemistry*, **2007**, 60, 384	1.2	277
28	Two-photon-induced three-dimensional optical data storage in CdS quantum-dot doped photopolymer. *Applied Physics Letters*, **2007**, 90, 161116	3.4	32
27	Rewritable polarization-encoded multilayer data storage in 2,5-dimethyl-4-(p-nitrophenylazo)anisole doped polymer. *Optics Letters*, **2007**, 32, 277-9	3	48
26	Synthesis of Carboxylic Acid and Ester Mid-Functionalized Polymers using RAFT Polymerization and ATRP. *Australian Journal of Chemistry*, **2006**, 59, 763	1.2	20
25	The Use of Block Copolymers to Systematically Modify Photochromic Behavior. *Macromolecules*, **2006**, 39, 9562-9570	5.5	42
24	Synthesis of Well-Defined Polystyrene with Primary Amine End Groups through the Use of Phthalimido-Functional RAFT Agents. *Macromolecules*, **2006**, 39, 5293-5306	5.5	144
23	Rapid Photochromic Switching in a Rigid Polymer Matrix Using Living Radical Polymerization. *Macromolecules*, **2006**, 39, 1391-1396	5.5	67
22	Tailoring Photochromic Performance of Polymer-Dye Conjugates Using Living Radical Polymerization (ATRP). *Molecular Crystals and Liquid Crystals*, **2005**, 430, 273-279	0.5	14
21	Research Trends in Photochromism: Control of Photochromism in Rigid Polymer Matrices and other Advances. *Australian Journal of Chemistry*, **2005**, 58, 825	1.2	31
20	Remarkable Solvent Effects of Oxygen- and Sulfur-Containing Compounds on the Propagation Rate of Methyl Methacrylate. *Zeitschrift Fur Physikalische Chemie*, **2005**, 219, 267-281	3.1	11
19	The generic enhancement of photochromic dye switching speeds in a rigid polymer matrix. *Nature Materials*, **2005**, 4, 249-53	27	208

18	Control of Photochromism through Local Environment Effects Using Living Radical Polymerization (ATRP). *Macromolecules*, **2004**, 37, 9664-9666	5.5	47
17	Factors Influencing Photochromism of Spiro-Compounds Within Polymeric Matrices. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **2003**, 43, 547-579		100
16	Substituent effects on the chain-transfer behavior of 7-methylene-2-methyl-1,5-dithiacyclooctane in the presence of disulfides and thiols. *Journal of Polymer Science Part A*, **2002**, 40, 4421-4425	2.5	15
15	Pulsed Laser Copolymerization of Ring-Opening Cyclic Allylic Sulfide Monomers with Methyl Methacrylate and Styrene. *Macromolecules*, **2002**, 35, 2474-2480	5.5	13
14	Free radical ring-opening polymerization of cyclic allylic sulfides: Liquid monomers with low polymerization volume shrinkage. *Journal of Polymer Science Part A*, **2001**, 39, 202-215	2.5	33
13	Copolymerization Behavior of 7-Methylene-2-methyl-1,5-dithiacyclooctane: Reversible Cross-Propagation. *Macromolecules*, **2001**, 34, 3869-3876	5.5	25
12	Chain Transfer in the Sulfur-Centered Free Radical Ring-Opening Polymerization of 3-Methylene-6-methyl-1,5-dithiacyclooctane. *Macromolecules*, **2000**, 33, 9553-9560	5.5	25
11	Free-Radical Ring-Opening Polymerization of Cyclic Allylic Sulfides. 2. Effect of Substituents on Seven- and Eight-Membered Ring Low Shrink Monomers. *Macromolecules*, **2000**, 33, 6722-6731	5.5	37
10	2-Pyridylnitrene1,3-Diazacyclohepta-1,2,4,6-tetraene Rearrangements in the Trifluoromethyl-2-pyridyl Azide Series1a. *Journal of the American Chemical Society*, **1996**, 118, 4009-4017	16.4	44
9	Control of polymer structure by chain transfer processes. *Macromolecular Symposia*, **1996**, 111, 1-11	0.8	23
8	Free-Radical Ring-Opening Polymerization of Cyclic Allylic Sulfides. *Macromolecules*, **1996**, 29, 6983-6989	5.5	63
7	New Free-Radical Ring-Opening Acrylate Monomers. *Macromolecules*, **1994**, 27, 7935-7937	5.5	58
6	Hydrogen cyanide dimers: photoelectron spectrum of iminoacetonitrile. *The Journal of Physical Chemistry*, **1992**, 96, 4801-4804		17
5	Trifluoromethyl-substituted dehydrodiazepines and cyanopyrroles from azido-/tetrazolo-pyridines. *Journal of the Chemical Society Chemical Communications*, **1992**, 1062		20
4	2,5-Dithiacyclopentylideneketene and ethenedithione, S:C:C:S, generated by flash vacuum pyrolysis. *Journal of the American Chemical Society*, **1991**, 113, 3130-3135	16.4	53
3	HCN dimers: iminoacetonitrile and N-cyanomethanimine. *Journal of the American Chemical Society*, **1991**, 113, 7261-7276	16.4	53
2	Dipivaloylketene and its unusual dimerization to a permanently stable .alpha.-oxoketene. *Journal of the American Chemical Society*, **1991**, 113, 4234-4237	16.4	35
1	Naphthalene diimide-based electron transport materials for perovskite solar cells. *Journal of Materials Chemistry A*,	13	2