

Colin P Mccoy

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.

85
papers

10,391
citations

32
h-index

87
g-index

87
ext. papers

10,913
ext. citations

7.9
avg, IF

5.6
L-index

#	Paper	IF	Citations
85	Signaling Recognition Events with Fluorescent Sensors and Switches. <i>Chemical Reviews</i> , 1997 , 97, 1515-1566	15.6	6140
84	A molecular photoionic AND gate based on fluorescent signalling. <i>Nature</i> , 1993 , 364, 42-44	50.4	997
83	Fluorescent PET (photoinduced electron transfer) sensors. <i>Topics in Current Chemistry</i> , 1993 , 223-264		298
82	Molecular Photoionic AND Logic Gates with Bright Fluorescence and Digital Action. <i>Journal of the American Chemical Society</i> , 1997 , 119, 7891-7892	16.4	293
81	New Fluorescent Model Compounds for the Study of Photoinduced Electron Transfer: The Influence of a Molecular Electric Field in the Excited State. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 1728-1731		280
80	Direct visual indication of pH windows: Fluorescent PET (photoinduced electron transfer) sensors/switches. <i>Chemical Communications</i> , 1996 , 2399-2400	5.8	151
79	Metal-directed synthesis of enantiomerically pure dimetallic lanthanide luminescent triple-stranded helicates. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9636-7	16.4	131
78	Light-triggered molecule-scale drug dosing devices. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9572-3	16.4	102
77	Hydrogel-Forming Microneedle Arrays Allow Detection of Drugs and Glucose In Vivo: Potential for Use in Diagnosis and Therapeutic Drug Monitoring. <i>PLoS ONE</i> , 2015 , 10, e0145644	3.7	96
76	Soft Matter pH Sensing: From Luminescent Lanthanide pH Switches in Solution to Sensing in Hydrogels. <i>Chemistry of Materials</i> , 2006 , 18, 4336-4343	9.6	95
75	Poly(epsilon-caprolactone) and poly(epsilon-caprolactone)-polyvinylpyrrolidone-iodine blends as ureteral biomaterials: characterisation of mechanical and surface properties, degradation and resistance to encrustation in vitro. <i>Biomaterials</i> , 2002 , 23, 4449-58	15.6	88
74	Selective imaging of damaged bone structure (microcracks) using a targeting supramolecular Eu(III) complex as a lanthanide luminescent contrast agent. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17542-3	16.4	84
73	Hydrogel-Forming Microneedle Arrays Made from Light-Responsive Materials for On-Demand Transdermal Drug Delivery. <i>Molecular Pharmaceutics</i> , 2016 , 13, 907-14	5.6	83
72	Anti-infective photodynamic biomaterials for the prevention of intraocular lens-associated infectious endophthalmitis. <i>Biomaterials</i> , 2009 , 30, 597-602	15.6	71
71	An investigation into the structure and bioavailability of alpha-tocopherol dispersions in Gelucire 44/14. <i>Journal of Controlled Release</i> , 2003 , 91, 477-88	11.7	68
70	Triggered drug delivery from biomaterials. <i>Expert Opinion on Drug Delivery</i> , 2010 , 7, 605-16	8	64
69	Mechanochemical Synthesis of Pharmaceutical Cocrystal Suspensions via Hot Melt Extrusion: Feasibility Studies and Physicochemical Characterization. <i>Molecular Pharmaceutics</i> , 2016 , 13, 3054-68	5.6	63

68	Photoionic devices with receptor-functionalized fluorophores. <i>Pure and Applied Chemistry</i> , 1996 , 68, 1443-1448	2.1	62
67	Luminescent Lanthanide Cyclen-Based Enzymatic Assay Capable of Diagnosing the Onset of Catheter-Associated Urinary Tract Infections Both in Solution and within Polymeric Hydrogels. <i>Journal of the American Chemical Society</i> , 2017 , 139, 381-388	16.4	59
66	The manufacture and characterisation of hot-melt extruded enteric tablets. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 69, 264-73	5.7	59
65	Towards the development of controllable and reversible On-off luminescence switching in soft-matter; synthesis and spectroscopic investigation of 1,8-naphthalimide-based PET (photoinduced electron transfer) chemosensors for pH in water-permeable hydrogels. <i>Arkivoc</i> , 2017 , 2017, 1-10	0.9	57
64	Characterization of the physicochemical, antimicrobial, and drug release properties of thermoresponsive hydrogel copolymers designed for medical device applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 85, 417-26	3.5	51
63	Fluorescent PET (photoinduced electron transfer) sensors with targeting/anchoring modules as molecular versions of submarine periscopes for mapping membrane-bounded protons. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 405		51
62	Physicochemical characterisation and biological evaluation of hydrogel-poly(epsilon-caprolactone) interpenetrating polymer networks as novel urinary biomaterials. <i>Biomaterials</i> , 2005 , 26, 1761-70	15.6	50
61	Novel porphyrin-incorporated hydrogels for photoactive intraocular lens biomaterials. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 527-34	3.4	43
60	Towards the development of Eu(III) luminescent switching/sensing in water-permeable hydrogels. <i>Tetrahedron Letters</i> , 2004 , 45, 8403-8407	2	41
59	Novel semi-interpenetrating hydrogel networks with enhanced mechanical properties and thermoresponsive engineered drug delivery, designed as bioactive endotracheal tube biomaterials. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 82, 563-71	5.7	39
58	Surface localisation of photosensitisers on intraocular lens biomaterials for prevention of infectious endophthalmitis and retinal protection. <i>Biomaterials</i> , 2012 , 33, 7952-8	15.6	37
57	Novel supercritical carbon dioxide impregnation technique for the production of amorphous solid drug dispersions: a comparison to hot melt extrusion. <i>Molecular Pharmaceutics</i> , 2015 , 12, 1377-90	5.6	34
56	Formation of Novel Dinuclear Lanthanide Luminescent Samarium(III), Europium(III), and Terbium(III) Triple-Stranded Helicates from a C2-Symmetrical Pyridine-2,6-dicarboxamide-Based 1,3-Xylenediyl-Linked Ligand in MeCN. <i>Helvetica Chimica Acta</i> , 2009 , 92, 2461-2473	2	34
55	Lanthanide luminescent logic gate mimics in soft matter: [H(+)] and [F(-)] dual-input device in a polymer gel with potential for selective component release. <i>Chemical Communications</i> , 2015 , 51, 16565-8	5.8	33
54	Photosensitisers - the progression from photodynamic therapy to anti-infective surfaces. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 85-101	8	33
53	Rapid One-Pot Preparation of Large Freestanding Nanoparticle-Polymer Films. <i>Small</i> , 2017 , 13, 160216311		31
52	Photoionic Supermolecules: Mobilizing the Charge and Light Brigades. <i>Journal of Chemical Education</i> , 1997 , 74, 53	2.4	26
51	Synthesis and characterisation of polymerisable photochromic spiropyrans: towards photomechanical biomaterials. <i>Tetrahedron Letters</i> , 2007 , 48, 657-661	2	25

50	The effect of the linker size in C-symmetrical chiral ligands on the self-assembly formation of luminescent triple-stranded di-metallic Eu(iii) helicates in solution. <i>Dalton Transactions</i> , 2018 , 47, 12308-12317	4.3	23
49	Infection-responsive drug delivery from urinary biomaterials controlled by a novel kinetic and thermodynamic approach. <i>Pharmaceutical Research</i> , 2013 , 30, 857-65	4.5	23
48	Photodynamic antimicrobial polymers for infection control. <i>PLoS ONE</i> , 2014 , 9, e108500	3.7	23
47	Atmospheric pressure microplasma for antibacterial silver nanoparticle/chitosan nanocomposites with tailored properties. <i>Composites Science and Technology</i> , 2020 , 186, 107911	8.6	23
46	An Infection-Responsive Approach To Reduce Bacterial Adhesion in Urinary Biomaterials. <i>Molecular Pharmaceutics</i> , 2016 , 13, 2817-22	5.6	23
45	The design and development of high drug loading amorphous solid dispersion for hot-melt extrusion platform. <i>International Journal of Pharmaceutics</i> , 2020 , 586, 119545	6.5	21
44	Nanoscale Hybrid Coating Enables Multifunctional Tissue Scaffold for Potential Multimodal Therapeutic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27269-27278	9.5	19
43	Luminescent lanthanide (Eu(iii)) cross-linked supramolecular metallo co-polymeric hydrogels: the effect of ligand symmetry. <i>Chemical Communications</i> , 2019 , 55, 1754-1757	5.8	18
42	Logic Gates		18
41	Effect of pH on the in vitro susceptibility of planktonic and biofilm-grown <i>Proteus mirabilis</i> to the quinolone antimicrobials. <i>Journal of Applied Microbiology</i> , 2013 , 115, 382-9	4.7	17
40	An examination of the thermorheological and drug release properties of zinc tetraphenylporphyrin-containing thermoresponsive hydrogels, designed as light activated antimicrobial implants. <i>Chemical Engineering Science</i> , 2007 , 62, 990-999	4.4	16
39	Anti-Adherent Biomaterials for Prevention of Catheter Biofouling. <i>International Journal of Pharmaceutics</i> , 2018 , 535, 420-427	6.5	16
38	Preaggregated Ag nanoparticles in dry swellable gel films for off-the-shelf surface-enhanced Raman spectroscopy. <i>Analytical Chemistry</i> , 2014 , 86, 8106-13	7.8	15
37	Quantification of singlet oxygen generation from photodynamic hydrogels. <i>Reactive and Functional Polymers</i> , 2015 , 87, 1-6	4.6	14
36	Neighboring group-controlled hydrolysis: towards "designer" drug release biomaterials. <i>Bioconjugate Chemistry</i> , 2007 , 18, 209-15	6.3	14
35	Supramolecular photoionic devices. <i>Advances in Supramolecular Chemistry</i> , 1997 , 1-53		14
34	Swellable polymer films containing Au nanoparticles for point-of-care therapeutic drug monitoring using surface-enhanced Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2016 , 912, 111-6	6.6	13
33	Gastroretentive extended-release floating granules prepared using a novel fluidized hot melt granulation (FHMG) technique. <i>Molecular Pharmaceutics</i> , 2014 , 11, 3471-83	5.6	12

32	Optimization of singlet oxygen production from photosensitizer-incorporated, medically relevant hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 320-326	3.5	12
31	Key biological issues in contact lens development. <i>Expert Review of Medical Devices</i> , 2008 , 5, 581-90	3.5	12
30	Hydrogel Antimicrobial Capture Coatings for Endotracheal Tubes: A Pharmaceutical Strategy Designed to Prevent Ventilator-Associated Pneumonia. <i>Molecular Pharmaceutics</i> , 2015 , 12, 2928-36	5.6	11
29	Systematic optimization of poly(vinyl chloride) surface modification with an aromatic thiol. <i>European Polymer Journal</i> , 2017 , 97, 40-48	5.2	11
28	The effect of dilute solution properties on poly(vinyl alcohol) films. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 28, 222-31	4.1	10
27	Luminescent Terbium Contrast Agent for Bone Microdamage Detection. <i>Australian Journal of Chemistry</i> , 2011 , 64, 600	1.2	10
26	Reduction of Staphylococcus aureus and Pseudomonas aeruginosa colonisation on PVC through covalent surface attachment of fluorinated thiols. <i>Journal of Pharmacy and Pharmacology</i> , 2010 , 61, 1163-1169	4.8	10
25	Evaluation of numeracy skills in first year pharmacy undergraduates 1999-2005. <i>Pharmacy Education</i> , 2007 , 7, 53-59		10
24	Rational design of a dual-mode optical and chemical prodrug. <i>Pharmaceutical Research</i> , 2007 , 24, 194-200	4.5	10
23	Physicochemical and drug diffusion analysis of rifampicin containing polyethylene glycol/poly(ϵ -caprolactone) networks designed for medical device applications. <i>Chemical Engineering Journal</i> , 2011 , 172, 1088-1095	14.7	8
22	Fluorescent Photoinduced Electron-Transfer Sensors. <i>ACS Symposium Series</i> , 1993 , 45-58	0.4	8
21	Time-Resolved Dynamics of Struvite Crystallization: Insights from the Macroscopic to Molecular Scale. <i>Chemistry - A European Journal</i> , 2020 , 26, 3555-3563	4.8	8
20	Microwave-Induced In Situ Amorphization: A New Strategy for Tackling the Stability Issue of Amorphous Solid Dispersions. <i>Pharmaceutics</i> , 2020 , 12,	6.4	8
19	Phosphonium Ionic Liquid-Infused Poly(vinyl chloride) Surfaces Possessing Potent Antifouling Properties. <i>ACS Omega</i> , 2020 , 5, 7771-7781	3.9	8
18	Thermodynamically stable amorphous drug dispersions in amorphous hydrophilic polymers engineered by hot melt extrusion. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 3046-3054	5.5	7
17	Moisture-activated rheological structuring of nonaqueous poloxamine-poly(acrylic acid) systems designed as novel biomedical implants. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 1838-54	3.9	7
16	Effects of storage on thermomechanical properties of poly(ϵ -caprolactone) blends containing poly(vinyl pyrrolidone/iodine). <i>Plastics, Rubber and Composites</i> , 2000 , 29, 371-379	1.5	7
15	Engaging a Battle on Two Fronts: Dual Role of Polyphosphates as Potent Inhibitors of Struvite Nucleation and Crystal Growth. <i>Chemistry of Materials</i> , 2020 , 32, 8672-8682	9.6	7

14	Photochemically Controlled Drug Dosing from a Polymeric Scaffold. <i>Pharmaceutical Research</i> , 2017 , 34, 1469-1476	4.5	6
13	Multifunctional, Low Friction, Antimicrobial Approach for Biomaterial Surface Enhancement.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1385-1393	4.1	6
12	Hot-melt extrusion of photodynamic antimicrobial polymers for prevention of microbial contamination. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021 , 214, 112098	6.7	5
11	Synthesis and release kinetics of polymerisable ester drug conjugates: towards pH-responsive infection-resistant urinary biomaterials. <i>Tetrahedron Letters</i> , 2013 , 54, 2511-2514	2	4
10	Metal Nanoparticles: Rapid One-Pot Preparation of Large Freestanding Nanoparticle-Polymer Films (Small 2/2017). <i>Small</i> , 2017 , 13,	11	2
9	Determination of the salivary retention of hexetidine in-vivo by high-performance liquid chromatography. <i>Journal of Pharmacy and Pharmacology</i> , 2000 , 52, 1355-9	4.8	2
8	Light-Triggered Anti-Infective Surfaces 2017 , 241-266		2
7	Weak organic acid synergy towards the prevention of catheter blockages. <i>Journal of Hospital Infection</i> , 2021 , 111, 69-77	6.9	2
6	Development of a high-level light-activated disinfectant for hard surfaces and medical devices. <i>International Journal of Antimicrobial Agents</i> , 2021 , 58, 106360	14.3	2
5	Use of in vitro and haptic assessments in the characterisation of surface lubricity. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019 , 233, 84-90	1.7	2
4	Reduction of Staphylococcus aureus and Pseudomonas aeruginosa colonisation on PVC through covalent surface attachment of fluorinated thiols. <i>Journal of Pharmacy and Pharmacology</i> , 2009 , 61, 1163-9	4.8	1
3	Synergistic activity of weak organic acids against uropathogens. <i>Journal of Hospital Infection</i> , 2021 , 111, 78-88	6.9	1
2	Infection-Triggered, Self-Cleaning Surfaces with On-Demand Cleavage of Surface-Localized Surfactant Moieties. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 586-594	5.5	1
1	Investigation into the role of the polymer in enhancing microwave-induced in situ amorphization. <i>International Journal of Pharmaceutics</i> , 2021 , 609, 121157	6.5	0