

# Todd Hoare

## List of Publications by Year in descending order

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111  
papers

8,833  
citations

57681

46  
h-index

48101

92  
g-index

114  
all docs

114  
docs citations

114  
times ranked

12068  
citing authors

#	ARTICLE	IF	CITATIONS
1	Click Chemistry Hydrogels for Extrusion Bioprinting: Progress, Challenges, and Opportunities. <i>Biomacromolecules</i> , 2022, 23, 619-640.	2.6	36
2	Microgels and Nanogels for the Delivery of Poorly Water-Soluble Drugs. <i>Molecular Pharmaceutics</i> , 2022, 19, 1704-1721.	2.3	22
3	DNAzyme-Immobilizing Microgel Magnetic Beads Enable Rapid, Specific, Culture-Free, and Wash-Free Electrochemical Quantification of Bacteria in Untreated Urine. <i>ACS Sensors</i> , 2022, 7, 985-994.	4.0	29
4	Polyvinylamine with moderate binding affinity as a highly effective vehicle for RNA delivery. <i>Journal of Controlled Release</i> , 2022, 345, 20-37.	4.8	20
5	Design of Smart Size-, Surface-, and Shape-Switching Nanoparticles to Improve Therapeutic Efficacy. <i>Small</i> , 2022, 18, e2104632.	5.2	33
6	Incorporation of Polymer-Grafted Cellulose Nanocrystals into Latex-Based Pressure-Sensitive Adhesives. <i>ACS Materials Au</i> , 2022, 2, 176-189.	2.6	6
7	A DNA Barcode-Based Aptasensor Enables Rapid Testing of Porcine Epidemic Diarrhea Viruses in Swine Saliva Using Electrochemical Readout. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
8	Hydrogels for Tissue Engineering: Addressing Key Design Needs Toward Clinical Translation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, .	2.0	25
9	Using the Intranasal Route to Administer Drugs to Treat Neurological and Psychiatric Illnesses: Rationale, Successes, and Future Needs. <i>CNS Drugs</i> , 2022, 36, 739-770.	2.7	18
10	Single-Step Printable Hydrogel Microarray Integrating Long-Chain DNA for the Discriminative and Size-Specific Sensing of Nucleic Acids. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2360-2370.	4.0	9
11	Fast Thermoresponsive Poly(oligoethylene glycol methacrylate) (POEGMA)-Based Nanostructured Hydrogels for Reversible Tuning of Cell Interactions. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4258-4268.	2.6	11
12	In situ-gelling starch nanoparticle (SNP)/O-carboxymethyl chitosan (CMCh) nanoparticle network hydrogels for the intranasal delivery of an antipsychotic peptide. <i>Journal of Controlled Release</i> , 2021, 330, 738-752.	4.8	36
13	A Review of Design and Fabrication Methods for Nanoparticle Network Hydrogels for Biomedical, Environmental, and Industrial Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2102355.	7.8	46
14	Integrating programmable DNAzymes with electrical readout for rapid and culture-free bacterial detection using a handheld platform. <i>Nature Chemistry</i> , 2021, 13, 895-901.	6.6	69
15	Effect of Reaction Media on Grafting Hydrophobic Polymers from Cellulose Nanocrystals <i>via</i> Surface-Initiated Atom-Transfer Radical Polymerization. <i>Biomacromolecules</i> , 2021, 22, 3601-3612.	2.6	12
16	Multi-scale structuring of cell-instructive cellulose nanocrystal composite hydrogel sheets via sequential electrospinning and thermal wrinkling. <i>Acta Biomaterialia</i> , 2021, 128, 250-261.	4.1	16
17	Ocular drug delivery to the anterior segment using nanocarriers: A mucoadhesive/mucopenetrative perspective. <i>Journal of Controlled Release</i> , 2021, 336, 71-88.	4.8	50
18	Cationic, Anionic, and Amphoteric Dual pH/Temperature-Responsive Degradable Microgels via Self-Assembly of Functionalized Oligomeric Precursor Polymers. <i>Macromolecules</i> , 2021, 54, 351-363.	2.2	15

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19	High-Throughput Synthesis, Analysis, and Optimization of Injectable Hydrogels for Protein Delivery. <i>Biomacromolecules</i> , 2020, 21, 214-229.	2.6	29
20	Nanostructured degradable macroporous hydrogel scaffolds with controllable internal morphologies via reactive electrospinning. <i>Acta Biomaterialia</i> , 2020, 104, 135-146.	4.1	35
21	Mechanically Reinforced Injectable Hydrogels. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1016-1030.	2.0	54
22	Drug-impregnated, pressurized gas expanded liquid-processed alginate hydrogel scaffolds for accelerated burn wound healing. <i>Acta Biomaterialia</i> , 2020, 112, 101-111.	4.1	54
23	Photopolymerized Starchstarch Nanoparticle (SNP) network hydrogels. <i>Carbohydrate Polymers</i> , 2020, 236, 115998.	5.1	16
24	Injectable Poly(oligoethylene glycol methacrylate)-Based Hydrogels Fabricated from Highly Branched Precursor Polymers: Controlling Gel Properties by Precursor Polymer Morphology. <i>ACS Applied Polymer Materials</i> , 2019, 1, 369-380.	2.0	8
25	2.5D Hierarchical Structuring of Nanocomposite Hydrogel Films Containing Cellulose Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6325-6335.	4.0	25
26	Externally Addressable Smart Drug Delivery Vehicles: Current Technologies and Future Directions. <i>Chemistry of Materials</i> , 2019, 31, 4971-4989.	3.2	64
27	Patterned Cellulose Nanocrystal Aerogel Films with Tunable Dimensions and Morphologies as Ultra-Porous Scaffolds for Cell Culture. <i>ACS Applied Nano Materials</i> , 2019, 2, 4169-4179.	2.4	25
28	Hydrogel Properties and Characterization Techniques. <i>Polymers and Polymeric Composites</i> , 2019, , 429-452.	0.6	2
29	Hydrogel Synthesis and Design. <i>Polymers and Polymeric Composites</i> , 2019, , 239-278.	0.6	4
30	Nanogels and Microgels: From Model Colloids to Applications, Recent Developments, and Future Trends. <i>Langmuir</i> , 2019, 35, 6231-6255.	1.6	395
31	Tissue Response and Biodistribution of Injectable Cellulose Nanocrystal Composite Hydrogels. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 2235-2246.	2.6	46
32	Applications of Hydrogels. <i>Polymers and Polymeric Composites</i> , 2019, , 453-490.	0.6	16
33	Advanced Hydrogel Structures. <i>Polymers and Polymeric Composites</i> , 2019, , 279-305.	0.6	1
34	Patterning of Structurally Anisotropic Composite Hydrogel Sheets. <i>Biomacromolecules</i> , 2018, 19, 1276-1284.	2.6	62
35	A printable hydrogel microarray for drug screening avoids false positives associated with promiscuous aggregating inhibitors. <i>Nature Communications</i> , 2018, 9, 602.	5.8	32
36	Dynamically Cross-Linked Self-Assembled Thermoresponsive Microgels with Homogeneous Internal Structures. <i>Langmuir</i> , 2018, 34, 1601-1612.	1.6	25

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37	Macroporous Hydrogels: Structured Macroporous Hydrogels: Progress, Challenges, and Opportunities (Adv. Healthcare Mater. 1/2018). Advanced Healthcare Materials, 2018, 7, 1870006.	3.9	6
38	Fabricating Degradable Thermoresponsive Hydrogels on Multiple Length Scales via Reactive Extrusion, Microfluidics, Self-assembly, and Electrospinning. Journal of Visualized Experiments, 2018, , .	0.2	7
39	Injectable and Degradable Poly(Oligoethylene glycol methacrylate) Hydrogels with Tunable Charge Densities as Adhesive Peptide-Free Cell Scaffolds. ACS Biomaterials Science and Engineering, 2018, 4, 3713-3725.	2.6	23
40	Autonomously Self-Adhesive Hydrogels as Building Blocks for Additive Manufacturing. Biomacromolecules, 2018, 19, 62-70.	2.6	25
41	Structured Macroporous Hydrogels: Progress, Challenges, and Opportunities. Advanced Healthcare Materials, 2018, 7, 1700927.	3.9	143
42	Advanced Hydrogel Structures. Polymers and Polymeric Composites, 2018, , 1-27.	0.6	0
43	Hydrogel Properties and Characterization Techniques. Polymers and Polymeric Composites, 2018, , 1-25.	0.6	0
44	Applications of Hydrogels. Polymers and Polymeric Composites, 2018, , 1-39.	0.6	0
45	Single-Step Reactive Electrospinning of Cell-Loaded Nanofibrous Scaffolds as Ready-to-Use Tissue Patches. Biomacromolecules, 2018, 19, 4182-4192.	2.6	22
46	Narrowly Dispersed, Degradable, and Scalable Poly(oligoethylene glycol methacrylate)-Based Nanogels via Thermal Self-Assembly. Industrial & Engineering Chemistry Research, 2018, 57, 7495-7506.	1.8	18
47	Review of Hydrogels and Aerogels Containing Nanocellulose. Chemistry of Materials, 2017, 29, 4609-4631.	3.2	1,056
48	Intranasal delivery of antipsychotic drugs. Schizophrenia Research, 2017, 184, 2-13.	1.1	41
49	Decellularized adipose tissue microcarriers as a dynamic culture platform for human adipose-derived stem/stromal cell expansion. Biomaterials, 2017, 120, 66-80.	5.7	95
50	Injectable Anisotropic Nanocomposite Hydrogels Direct in Situ Growth and Alignment of Myotubes. Nano Letters, 2017, 17, 6487-6495.	4.5	111
51	pH-Ionizable in Situ Gelling Poly(oligo ethylene glycol methacrylate)-Based Hydrogels: The Role of Internal Network Structures in Controlling Macroscopic Properties. Macromolecules, 2017, 50, 7687-7698.	2.2	10
52	Microfluidic production of degradable thermoresponsive poly( <i>N</i> -isopropylacrylamide)-based microgels. Soft Matter, 2017, 13, 9060-9070.	1.2	15
53	Nanostructure of Fully Injectable Hydrazone-Thiosuccinimide Interpenetrating Polymer Network Hydrogels Assessed by Small-Angle Neutron Scattering and dSTORM Single-Molecule Fluorescence Microscopy. ACS Applied Materials & Interfaces, 2017, 9, 42179-42191.	4.0	14
54	Composite Hydrogels with Tunable Anisotropic Morphologies and Mechanical Properties. Chemistry of Materials, 2016, 28, 3406-3415.	3.2	206

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55	An Injectable Hydrogel Prepared Using a PEG/Vitamin E Copolymer Facilitating Aqueous-Driven Gelation. <i>Biomacromolecules</i> , 2016, 17, 3648-3658.	2.6	29
56	Tuning the properties of injectable poly(oligoethylene glycol methacrylate) hydrogels by controlling precursor polymer molecular weight. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6541-6551.	2.9	9
57	“Click”-Chemistry-Tethered Hyaluronic Acid-Based Contact Lens Coatings Improve Lens Wettability and Lower Protein Adsorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 22064-22073.	4.0	51
58	Cooperative Ordering and Kinetics of Cellulose Nanocrystal Alignment in a Magnetic Field. <i>Langmuir</i> , 2016, 32, 7564-7571.	1.6	119
59	Nanogels of methylcellulose hydrophobized with N-tert-butylacrylamide for ocular drug delivery. <i>Drug Delivery and Translational Research</i> , 2016, 6, 648-659.	3.0	34
60	Properties of Poly(ethylene glycol) Hydrogels Cross-Linked via Strain-Promoted Alkyne-“Azide Cycloaddition (SPAAC). <i>Biomacromolecules</i> , 2016, 17, 1093-1100.	2.6	46
61	Controlling the resolution and duration of pulsatile release from injectable magnetic “plum-pudding”™ nanocomposite hydrogels. <i>RSC Advances</i> , 2016, 6, 15770-15781.	1.7	15
62	Enhanced Mechanical Properties in Cellulose Nanocrystal-Poly(oligoethylene glycol methacrylate) Injectable Nanocomposite Hydrogels through Control of Physical and Chemical Cross-Linking. <i>Biomacromolecules</i> , 2016, 17, 649-660.	2.6	175
63	A Highly Sensitive Immunosorbent Assay Based on Biotinylated Graphene Oxide and the Quartz Crystal Microbalance. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 1893-1902.	4.0	39
64	Reactive electrospinning of degradable poly(oligoethylene glycol methacrylate)-based nanofibrous hydrogel networks. <i>Chemical Communications</i> , 2016, 52, 1451-1454.	2.2	54
65	Enhanced Pulsatile Drug Release from Injectable Magnetic Hydrogels with Embedded Thermosensitive Microgels. <i>ACS Macro Letters</i> , 2015, 4, 312-316.	2.3	90
66	Temperature-Induced Assembly of Monodisperse, Covalently Cross-Linked, and Degradable Poly(N-isopropylacrylamide) Microgels Based on Oligomeric Precursors. <i>Langmuir</i> , 2015, 31, 5767-5778.	1.6	23
67	Transmission behavior of pNIPAM microgel particles through porous membranes. <i>Journal of Membrane Science</i> , 2015, 479, 141-147.	4.1	10
68	Hydrophobically-modified poly(vinyl pyrrolidone) as a physically-associative, shear-responsive ophthalmic hydrogel. <i>Experimental Eye Research</i> , 2015, 137, 18-31.	1.2	26
69	“Off-the-shelf”-thermosensitive hydrogel design: tuning hydrogel properties by mixing precursor polymers with different lower-critical solution temperatures. <i>RSC Advances</i> , 2015, 5, 33364-33376.	1.7	29
70	Injectable hydrogels based on poly(ethylene glycol) and derivatives as functional biomaterials. <i>RSC Advances</i> , 2015, 5, 35469-35486.	1.7	138
71	Injectable Interpenetrating Network Hydrogels via Kinetically Orthogonal Reactive Mixing of Functionalized Polymeric Precursors. <i>ACS Macro Letters</i> , 2015, 4, 1104-1109.	2.3	34
72	Haloperidol-loaded intranasally administered lectin functionalized poly(ethylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (glycol)“ schizophrenia. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 87, 30-39.	2.0	70

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73	Injectable and tunable poly(ethylene glycol) analogue hydrogels based on poly(oligoethylene glycol) Tj ETQq1 1 0.784314 rgBT /Overfoc	2.2	107
74	Designing multi-responsive polymers using latent variable methods. <i>Polymer</i> , 2014, 55, 505-516.	1.8	14
75	Externally addressable hydrogel nanocomposites for biomedical applications. <i>Current Opinion in Chemical Engineering</i> , 2014, 4, 1-10.	3.8	42
76	Injectable hydrogels with in situ-forming hydrophobic domains: oligo( <i>d</i> -, <i>l</i> -lactide) modified poly(oligoethylene glycol methacrylate) hydrogels. <i>Polymer Chemistry</i> , 2014, 5, 6811-6823.	1.9	32
77	Designing Injectable, Covalently Cross-Linked Hydrogels for Biomedical Applications. <i>Macromolecular Rapid Communications</i> , 2014, 35, 598-617.	2.0	147
78	Injectable, in situ gelling, cyclodextrin- $\beta$ -dextran hydrogels for the partitioning-driven release of hydrophobic drugs. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5157.	2.9	52
79	Carboxymethyl and hydrazide functionalized $\beta$ -cyclodextrin derivatives: A systematic investigation of complexation behaviours with the model hydrophobic drug dexamethasone. <i>International Journal of Pharmaceutics</i> , 2014, 472, 315-326.	2.6	19
80	Probing the Internal Morphology of Injectable Poly(oligoethylene glycol methacrylate) Hydrogels by Light and Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2014, 47, 6017-6027.	2.2	16
81	Poly(oligoethylene glycol methacrylate) Dip-Coating: Turning Cellulose Paper into a Protein-Repellent Platform for Biosensors. <i>Journal of the American Chemical Society</i> , 2014, 136, 12852-12855.	6.6	42
82	Tuning Gelation Time and Morphology of Injectable Hydrogels Using Ketone- $\beta$ -Hydrazide Cross-Linking. <i>Biomacromolecules</i> , 2014, 15, 781-790.	2.6	92
83	Prevention of peritoneal adhesions using polymeric rheological blends. <i>Acta Biomaterialia</i> , 2014, 10, 1187-1193.	4.1	19
84	Injectable poly(oligoethylene glycol methacrylate)-based hydrogels with tunable phase transition behaviours: Physicochemical and biological responses. <i>Acta Biomaterialia</i> , 2014, 10, 4143-4155.	4.1	59
85	Tuning drug release from smart microgel-hydrogel composites via cross-linking. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 422-430.	5.0	60
86	Injectable Superparamagnets: Highly Elastic and Degradable Poly( <i>N</i> -isopropylacrylamide)- $\beta$ -Superparamagnetic Iron Oxide Nanoparticle (SPION) Composite Hydrogels. <i>Biomacromolecules</i> , 2013, 14, 644-653.	2.6	107
87	Designing responsive microgels for drug delivery applications. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3027-3043.	2.5	146
88	Injectable Polysaccharide Hydrogels Reinforced with Cellulose Nanocrystals: Morphology, Rheology, Degradation, and Cytotoxicity. <i>Biomacromolecules</i> , 2013, 14, 4447-4455.	2.6	263
89	Injectable, Degradable Thermoresponsive Poly( <i>N</i> -isopropylacrylamide) Hydrogels. <i>ACS Macro Letters</i> , 2012, 1, 409-413.	2.3	131
90	Injectable, Mixed Natural-Synthetic Polymer Hydrogels with Modular Properties. <i>Biomacromolecules</i> , 2012, 13, 369-378.	2.6	145

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91	Thermoresponsive nanogels for prolonged duration local anesthesia. <i>Acta Biomaterialia</i> , 2012, 8, 3596-3605.	4.1	56
92	Synthesis of Monodisperse, Covalently Cross-Linked, Degradable "Smart" Microgels Using Microfluidics. <i>Small</i> , 2012, 8, 1092-1098.	5.2	45
93	Semi-batch control over functional group distributions in thermoresponsive microgels. <i>Colloid and Polymer Science</i> , 2012, 290, 1181-1192.	1.0	30
94	Nanogel scavengers for drugs: Local anesthetic uptake by thermoresponsive nanogels. <i>Acta Biomaterialia</i> , 2012, 8, 1450-1458.	4.1	27
95	Magnetically Triggered Nanocomposite Membranes: A Versatile Platform for Triggered Drug Release. <i>Nano Letters</i> , 2011, 11, 1395-1400.	4.5	241
96	Injectable Microgel-Hydrogel Composites for Prolonged Small-Molecule Drug Delivery. <i>Biomacromolecules</i> , 2011, 12, 4112-4120.	2.6	186
97	A Magnetically Triggered Composite Membrane for On-Demand Drug Delivery. <i>Nano Letters</i> , 2009, 9, 3651-3657.	4.5	335
98	Preparation of Monodisperse Biodegradable Polymer Microparticles Using a Microfluidic Flow-Focusing Device for Controlled Drug Delivery. <i>Small</i> , 2009, 5, 1575-1581.	5.2	545
99	Characterizing charge and crosslinker distributions in polyelectrolyte microgels. <i>Current Opinion in Colloid and Interface Science</i> , 2008, 13, 413-428.	3.4	95
100	Charge-Switching, Amphoteric Glucose-Responsive Microgels with Physiological Swelling Activity. <i>Biomacromolecules</i> , 2008, 9, 733-740.	2.6	180
101	Impact of Microgel Morphology on Functionalized Microgel-Drug Interactions. <i>Langmuir</i> , 2008, 24, 1005-1012.	1.6	142
102	Functionalized Microgel Swelling: Comparing Theory and Experiment. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11895-11906.	1.2	66
103	Calorimetric Analysis of Thermal Phase Transitions in Functionalized Microgels. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1334-1342.	1.2	33
104	Engineering Glucose Swelling Responses in Poly(N-isopropylacrylamide)-Based Microgels. <i>Macromolecules</i> , 2007, 40, 670-678.	2.2	242
105	Titrametric Characterization of pH-Induced Phase Transitions in Functionalized Microgels. <i>Langmuir</i> , 2006, 22, 7342-7350.	1.6	105
106	Kinetic Prediction of Functional Group Distributions in Thermosensitive Microgels. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20327-20336.	1.2	105
107	Dimensionless plot analysis: A new way to analyze functionalized microgels. <i>Journal of Colloid and Interface Science</i> , 2006, 303, 109-116.	5.0	32
108	Multi-Component Kinetic Modeling for Controlling Local Compositions in Thermosensitive Polymers. <i>Macromolecular Theory and Simulations</i> , 2006, 15, 619-632.	0.6	52

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109	Electrophoresis of functionalized microgels: morphological insights. <i>Polymer</i> , 2005, 46, 1139-1150.	1.8	62
110	Highly pH and Temperature Responsive Microgels Functionalized with Vinylacetic Acid. <i>Macromolecules</i> , 2004, 37, 2544-2550.	2.2	380
111	Functional Group Distributions in Carboxylic Acid Containing Poly(N-isopropylacrylamide) Microgels. <i>Langmuir</i> , 2004, 20, 2123-2133.	1.6	224