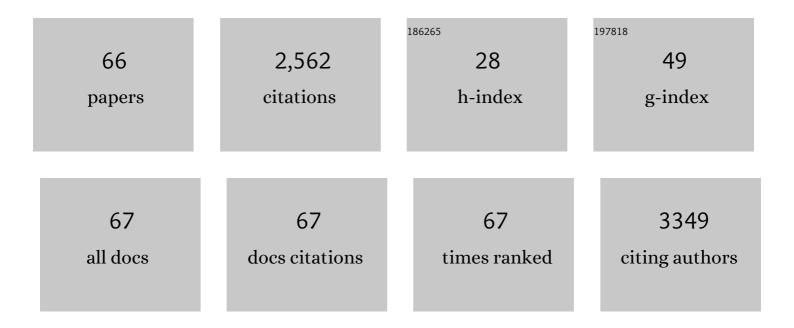
Matthew T Bernards

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Enhancement and mechanisms of MC3T3â€E1 osteoblastâ€like cell adhesion to albumin through calcium exposure. Biotechnology and Applied Biochemistry, 2022, 69, 492-502.	3.1	11
2	A Robust Approach to In Situ Exsolve Highly Dispersed and Stable Electrocatalysts. Small, 2022, 18, e2105741.	10.0	2
3	Paired Simulations and Experimental Investigations into the Calcium-Dependent Conformation of Albumin. Journal of Chemical Information and Modeling, 2022, 62, 1282-1293.	5.4	7
4	Electrochemical Reduction of CO ₂ on Copper-Based Electrocatalyst Supported on MWCNTs with Different Functional Groups. Energy & Fuels, 2022, 36, 5833-5842.	5.1	7
5	Spontaneously Restoring Specific Bioaffinity of RGD in Linear RGD-containing Peptides by Conjugation with Zwitterionic Dendrimers. Acta Biomaterialia, 2022, 148, 61-72.	8.3	5
6	CO2 adsorption by polyamine-based protic ionic liquid-functionalized mesoporous silica: regenerability and influence of flue gas contaminants. Journal of Materials Science, 2021, 56, 3024-3034.	3.7	3
7	Sequence-based peptide identification, generation, and property prediction with deep learning: a review. Molecular Systems Design and Engineering, 2021, 6, 406-428.	3.4	17
8	Hydrocyclone Separation in Combination with Mature Separation Techniques to Treat Produced Water. , 2021, , .		0
9	Effects of chloride substitution on physical, mechanical, and biological properties of hydroxyapatite. Ceramics International, 2021, 47, 13207-13215.	4.8	6
10	Squarate-Calcium Metal–Organic Framework for Molecular Sieving of CO ₂ from Flue Gas with High Water Vapor Resistance. Energy & Fuels, 2021, 35, 13900-13907.	5.1	10
11	Synthesis of a zwitterionic N-Ser–Ser-C dimethacrylate cross-linker and evaluation in polyampholyte hydrogels. Biomaterials Science, 2021, 9, 5508-5518.	5.4	2
12	Assessment of the performance of nonfouling polymer hydrogels utilizing citizen scientists. PLoS ONE, 2021, 16, e0261817.	2.5	1
13	Dendrimer-Based Biocompatible Zwitterionic Micelles for Efficient Cellular Internalization and Enhanced Antitumor Effects. ACS Applied Polymer Materials, 2020, 2, 159-171.	4.4	18
14	Surface lattice oxygen activation via Zr4+ cations substituting on A2+ sites of MnCr2O4 forming ZrxMn1â^'xCr2O4 catalysts for enhanced NH3-SCR performance. Chemical Engineering Journal, 2020, 380, 122397.	12.7	44
15	Insights on the mechanism of enhanced selective catalytic reduction of NO with NH3 over Zr-doped MnCr2O4: A combination of in situ DRIFTS and DFT. Chemical Engineering Journal, 2020, 386, 123956.	12.7	35
16	Degradation of gas-phase o-xylene via combined non-thermal plasma and Fe doped LaMnO3 catalysts: Byproduct control. Journal of Hazardous Materials, 2020, 387, 121750.	12.4	40
17	Peritoneal adhesions: Occurrence, prevention and experimental models. Acta Biomaterialia, 2020, 116, 84-104.	8.3	87
18	Enhancement of the Fouling Resistance of Zwitterion Coated Ceramic Membranes. Membranes, 2020, 10, 210	3.0	4

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19	Screening and Performance Evaluation of Triethylenetetramine Nonaqueous Solutions for CO ₂ Capture with Microwave Regeneration. Energy & Fuels, 2020, 34, 11270-11281.	5.1	15
20	Enhanced SO ₂ Resistance of Tetraethylenepentammonium Nitrate Protic Ionic Liquid-Functionalized SBA-15 during CO ₂ Capture from Flue Gas. Energy & Fuels, 2020, 34, 8628-8634.	5.1	7
21	Enhanced Biocompatibility of Polyampholyte Hydrogels. Langmuir, 2020, 36, 3292-3299.	3.5	13
22	Three-Dimensional Nitrogen-Doped Graphene Aerogel-Supported MnO Nanoparticles as Efficient Electrocatalysts for CO ₂ Reduction to CO. ACS Sustainable Chemistry and Engineering, 2020, 8, 4983-4994.	6.7	32
23	Understanding the co-effects of manganese and cobalt on the enhanced SCR performance for Mn _x Co _{1â^*x} Cr ₂ O ₄ spinel-type catalysts. Catalysis Science and Technology, 2020, 10, 4752-4765.	4.1	26
24	Evaluation of chlorine substituted hydroxyapatite (ClHAP)/polydopamine composite coatings on Ti64. Colloids and Surfaces B: Biointerfaces, 2020, 189, 110799.	5.0	10
25	Oxidation-induced restructuring of copper sulfides for enhanced performance in CO2 electroreduction. Journal of CO2 Utilization, 2020, 39, 101169.	6.8	8
26	Synergistic Enhancement of CO ₂ Adsorption Capacity and Kinetics in Triethylenetetrammonium Nitrate Protic Ionic Liquid Functionalized SBA-15. Energy & Fuels, 2019, 33, 8967-8975.	5.1	19
27	An alternative model for simulating water between two monolayer surfaces. Journal of Molecular Liquids, 2019, 290, 111284.	4.9	0
28	CO2 capture with polyamine-based protic ionic liquid functionalized mesoporous silica. Journal of CO2 Utilization, 2019, 34, 606-615.	6.8	53
29	Impacts of cross-linker chain length on the physical properties of polyampholyte hydrogels. Biointerphases, 2019, 14, 031002.	1.6	10
30	Mechanisms of Xylene Isomer Oxidation by Non-thermal Plasma via Paired Experiments and Simulations. Plasma Chemistry and Plasma Processing, 2019, 39, 863-876.	2.4	4
31	Lysozyme sorption by pure-silica zeolite MFI films. Materials Today Communications, 2019, 19, 352-359.	1.9	7
32	Phase-Change Mechanism for Capturing CO ₂ into an Environmentally Benign Nonaqueous Solution: A Combined NMR and Molecular Dynamics Simulation Study. Energy & Fuels, 2019, 33, 474-483.	5.1	29
33	Key features and updates for Origin 2018. Journal of Cheminformatics, 2018, 10, 5.	6.1	86
34	In situ regeneration of commercial NH3-SCR catalysts with high-temperature water vapor. Catalysis Communications, 2018, 116, 57-61.	3.3	26
35	Modification of Polysulfone (PSF) Hollow Fiber Membrane (HFM) with Zwitterionic or Charged Polymers. Industrial & Engineering Chemistry Research, 2017, 56, 7576-7584.	3.7	17
36	Probing the influence of SIBLING proteins on collagen-I fibrillogenesis and denaturation. Connective Tissue Research, 2017, 59, 1-13.	2.3	5

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37	Polyampholyte Hydrogels in Biomedical Applications. Gels, 2017, 3, 41.	4.5	44
38	Evaluation of High Density Algal Cultivation for Secondary Wastewater Polishing. Water Environment Research, 2016, 88, 47-53.	2.7	22
39	Tunable multifunctional tissue engineering scaffolds composed of three omponent polyampholyte polymers. Journal of Applied Polymer Science, 2016, 133, .	2.6	19
40	Impact of Magnesium Oxide Preparation Conditions on Iodine Adsorption Capacity. Nuclear Science and Engineering, 2015, 181, 310-317.	1.1	4
41	PEG Functionalization of Whispering Gallery Mode Optical Microresonator Biosensors to Minimize Non-Specific Adsorption during Targeted, Label-Free Sensing. Sensors, 2015, 15, 18040-18060.	3.8	32
42	Surface protonation/deprotonation controlled instant affinity switch of nano drug vehicle (NDV) for pH triggered tumor cell targeting. Biomaterials, 2015, 62, 116-127.	11.4	49
43	Characterizing Drug Release from Nonfouling Polyampholyte Hydrogels. Langmuir, 2015, 31, 13402-13409.	3.5	15
44	Evaluation of Anaerobic/Anoxic/Oxic (A ² /O) and Reverse A ² /O Processes in Biological Nutrient Removal. Water Environment Research, 2014, 86, 2186-2193.	2.7	14
45	Development of Zwitterionic Polymer-Based Doxorubicin Conjugates: Tuning the Surface Charge To Prolong the Circulation and Reduce Toxicity. Langmuir, 2014, 30, 3764-3774.	3.5	50
46	Recent biomedical advances with polyampholyte polymers. Journal of Applied Polymer Science, 2014, 131, .	2.6	64
47	Polyampholyte polymers as a versatile zwitterionic biomaterial platform. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 1479-1488.	3.5	44
48	Algae-facilitated chemical phosphorus removal during high-density Chlorella emersonii cultivation in a membrane bioreactor. Bioresource Technology, 2014, 153, 383-387.	9.6	113
49	Multifunctional Polyampholyte Hydrogels with Fouling Resistance and Protein Conjugation Capacity. Biomacromolecules, 2013, 14, 3112-3122.	5.4	61
50	Fate and toxicity of melamine in activated sludge treatment systems after a long-term sludge adaptation. Water Research, 2013, 47, 2307-2314.	11.3	37
51	Mineralization induction effects of osteopontin, bone sialoprotein, and dentin phosphoprotein on a biomimetic collagen substrate. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1571-1581.	4.0	70
52	Nonfouling Hydrogels Formed from Charged Monomer Subunits. Journal of Physical Chemistry B, 2012, 116, 14346-14352.	2.6	43
53	Tailoring the Protein Adsorption Properties of Whispering Gallery Mode Optical Biosensors. Langmuir, 2012, 28, 15743-15750.	3.5	51
54	Adhesion of MC3T3â€E1 cells bound to dentin phosphoprotein specifically bound to collagen type I. Journal of Biomedical Materials Research - Part A, 2012, 100A, 2492-2498.	4.0	9

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55	Nonfouling polyampholyte polymer brushes with protein conjugation capacity. Colloids and Surfaces B: Biointerfaces, 2012, 93, 195-201.	5.0	41
56	pH responsive properties of non-fouling mixed-charge polymer brushes based on quaternary amine and carboxylic acid monomers. Biomaterials, 2010, 31, 2919-2925.	11.4	159
57	Hydration of "Nonfouling―Functional Groups. Journal of Physical Chemistry B, 2009, 113, 197-201.	2.6	91
58	Adhesion of MC3T3‣1 cells to bone sialoprotein and bone osteopontin specifically bound to collagen I. Journal of Biomedical Materials Research - Part A, 2008, 86A, 779-787.	4.0	28
59	pHâ€induced conformation changes of adsorbed vitronectin maximize its bovine aortic endothelial cell binding ability. Journal of Biomedical Materials Research - Part A, 2008, 87A, 505-514.	4.0	16
60	MC3T3-E1 cell adhesion to hydroxyapatite with adsorbed bone sialoprotein, bone osteopontin, and bovine serum albumin. Colloids and Surfaces B: Biointerfaces, 2008, 64, 236-247.	5.0	69
61	Nonfouling Polymer Brushes via Surface-Initiated, Two-Component Atom Transfer Radical Polymerization. Macromolecules, 2008, 41, 4216-4219.	4.8	170
62	Molecular Simulation Studies of Protein Interactions with Zwitterionic Phosphorylcholine Self-Assembled Monolayers in the Presence of Water. Langmuir, 2008, 24, 10358-10364.	3.5	319
63	Molecular simulation studies of nanoscale friction between phosphorylcholine self-assembled monolayer surfaces: Correlation between surface hydration and friction. Journal of Chemical Physics, 2007, 127, 084708.	3.0	13
64	Development of Biocompatible Interpenetrating Polymer Networks Containing a Sulfobetaine-Based Polymer and a Segmented Polyurethane for Protein Resistance. Biomacromolecules, 2007, 8, 122-127.	5.4	132
65	Understanding the nonfouling mechanism of surfaces through molecular simulations of sugar-based self-assembled monolayers. Journal of Chemical Physics, 2006, 125, 214704.	3.0	76
66	Molecular simulation studies of the structure of phosphorylcholine self-assembled monolayers. Journal of Chemical Physics, 2006, 125, 174714.	3.0	41