

Joseph J Richardson

List of Publications by Year in Descending Order

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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.

124 papers	8,135 citations	42 h-index	89 g-index
136 ext. papers	9,978 ext. citations	12.4 avg, IF	6.52 L-index

#	Paper	IF	Citations
124	Exploiting Molecular Dynamics in Composite Coatings to Design Robust Super-Repellent Surfaces.. <i>Advanced Science</i> , 2022 , e2104331	13.6	4
123	Synthesis of Dithiocatechol-Pendant Polymers.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	2
122	Rapid assembly of colorless antimicrobial and anti-odor coatings from polyphenols and silver.. <i>Scientific Reports</i> , 2022 , 12, 2071	4.9	2
121	Alloyed nanostructures integrated metal-phenolic nanoplatform for synergistic wound disinfection and revascularization.. <i>Bioactive Materials</i> , 2022 , 16, 95-106	16.7	2
120	Ultrastrong underwater adhesion on diverse substrates using non-canonical phenolic groups.. <i>Nature Communications</i> , 2022 , 13, 1892	17.4	6
119	Benchmarking supramolecular adhesive behaviour of nanocelluloses, cellulose derivatives and proteins. <i>Carbohydrate Polymers</i> , 2022 , 119681	10.3	2
118	Assembly of Bioactive Nanoparticles via Metal-Phenolic Complexation.. <i>Advanced Materials</i> , 2021 , e2108624	16.4	4
117	Polydopamine-Mediated Surface Functionalization of Exosomes. <i>ChemNanoMat</i> , 2021 , 7, 592-595	3.5	0
116	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , 2021 , 15, 3754-3807	16.7	18
115	Metal-Phenolic Networks as Tunable Buffering Systems. <i>Chemistry of Materials</i> , 2021 , 33, 2557-2566	9.6	5
114	A pilot study investigating a novel particle-based growth factor delivery system for preimplantation embryo culture. <i>Human Reproduction</i> , 2021 , 36, 1776-1783	5.7	0
113	Exploiting Supramolecular Dynamics in Metal-Phenolic Networks to Generate Metal-Oxide and Metal-Carbon Networks. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 14586-14594	16.4	14
112	Exploiting Supramolecular Dynamics in Metal-Phenolic Networks to Generate Metal-Oxide and Metal-Carbon Networks. <i>Angewandte Chemie</i> , 2021 , 133, 14707-14715	3.6	4
111	Fluorinated Metal-Organic Coatings with Selective Wettability. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9972-9981	16.4	7
110	Engineered Coatings via the Assembly of Amino-Quinone Networks. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2346-2354	16.4	18
109	Microemulsion-Assisted Templating of Metal-Stabilized Poly(ethylene glycol) Nanoparticles. <i>Biomacromolecules</i> , 2021 , 22, 612-619	6.9	1
108	Engineered Coatings via the Assembly of Amino-Quinone Networks. <i>Angewandte Chemie</i> , 2021 , 133, 2376-2384	3.6	2

107	Programmable Phototaxis of Metal-Phenolic Particle Microswimmers. <i>Advanced Materials</i> , 2021 , 33, e2004177 6		
106	Robust and Versatile Coatings Engineered via Simultaneous Covalent and Noncovalent Interactions. <i>Angewandte Chemie</i> , 2021 , 133, 20387-20392	3.6	1
105	Robust and Versatile Coatings Engineered via Simultaneous Covalent and Noncovalent Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20225-20230	16.4	4
104	Superstructured mesocrystals through multiple inherent molecular interactions for highly reversible sodium ion batteries. <i>Science Advances</i> , 2021 , 7, eabh3482	14.3	17
103	Luminescent Metal-Phenolic Networks for Multicolor Particle Labeling. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24968-24975	16.4	5
102	Biofilms in plant-based fermented foods: Formation mechanisms, benefits and drawbacks on quality and safety, and functionalization strategies. <i>Trends in Food Science and Technology</i> , 2021 , 116, 940-953	15.3	4
101	Polyphenol-Mediated Assembly for Particle Engineering. <i>Accounts of Chemical Research</i> , 2020 , 53, 1269-1278	14.7	94
100	Cobalt-Directed Assembly of Antibodies onto Metal-Phenolic Networks for Enhanced Particle Targeting. <i>Nano Letters</i> , 2020 , 20, 2660-2666	11.5	24
99	Exploiting Supramolecular Interactions from Polymeric Colloids for Strong Anisotropic Adhesion between Solid Surfaces. <i>Advanced Materials</i> , 2020 , 32, e1906886	24	34
98	Polyphenol-Mediated Assembly of Proteins for Engineering Functional Materials. <i>Angewandte Chemie</i> , 2020 , 132, 15748-15755	3.6	12
97	Polyphenol-Mediated Assembly of Proteins for Engineering Functional Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15618-15625	16.4	56
96	Hierarchical assembly of nanostructured coating for siRNA-based dual therapy of bone regeneration and revascularization. <i>Biomaterials</i> , 2020 , 235, 119784	15.6	22
95	Nanobiohybrids: Materials approaches for bioaugmentation. <i>Science Advances</i> , 2020 , 6, eaaz0330	14.3	55
94	The Biomolecular Corona in 2D and Reverse: Patterning Metal-Phenolic Networks on Proteins, Lipids, Nucleic Acids, Polysaccharides, and Fingerprints. <i>Advanced Functional Materials</i> , 2020 , 30, 1905805	15.6	13
93	Ordered Mesoporous Metal-Phenolic Network Particles. <i>Journal of the American Chemical Society</i> , 2020 , 142, 335-341	16.4	42
92	Expanding the Toolbox of Metal-Phenolic Networks via Enzyme-Mediated Assembly. <i>Angewandte Chemie</i> , 2020 , 132, 1728-1734	3.6	9
91	Expanding the Toolbox of Metal-Phenolic Networks via Enzyme-Mediated Assembly. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1711-1717	16.4	24
90	Polyphenol-Based Nanoparticles for Intracellular Protein Delivery Competing Supramolecular Interactions. <i>ACS Nano</i> , 2020 , 14, 12972-12981	16.7	24

89	Particle engineering enabled by polyphenol-mediated supramolecular networks. <i>Nature Communications</i> , 2020 , 11, 4804	17.4	28
88	Programmable Permeability of Metal-Phenolic Network Microcapsules. <i>Chemistry of Materials</i> , 2020 , 32, 6975-6982	9.6	14
87	Modular Assembly of Host-Guest Metal-Phenolic Networks Using Macrocyclic Building Blocks. <i>Angewandte Chemie</i> , 2020 , 132, 281-286	3.6	5
86	Modular Assembly of Host-Guest Metal-Phenolic Networks Using Macrocyclic Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 275-280	16.4	26
85	Macromolecular dextran sulfate facilitates extracellular matrix deposition by electrostatic interaction independent from a macromolecular crowding effect. <i>Materials Science and Engineering C</i> , 2020 , 106, 110280	8.3	17
84	Ricocheting Droplets Moving on Super-Repellent Surfaces. <i>Advanced Science</i> , 2019 , 6, 1901846	13.6	13
83	Ligand-Functionalized Poly(ethylene glycol) Particles for Tumor Targeting and Intracellular Uptake. <i>Biomacromolecules</i> , 2019 , 20, 3592-3600	6.9	18
82	Expression of Programmed Cell Death-Ligands in Hepatocellular Carcinoma: Correlation With Immune Microenvironment and Survival Outcomes. <i>Frontiers in Oncology</i> , 2019 , 9, 883	5.3	27
81	Metal-Phenolic Coatings as a Platform to Trigger Endosomal Escape of Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 11653-11664	16.7	63
80	Tuning the Mechanical Behavior of Metal-Phenolic Networks through Building Block Composition. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6404-6410	9.5	19
79	Metal-dependent inhibition of amyloid fibril formation: synergistic effects of cobalt-tannic acid networks. <i>Nanoscale</i> , 2019 , 11, 1921-1928	7.7	18
78	Acoustomicrofluidic assembly of oriented and simultaneously activated metal-organic frameworks. <i>Nature Communications</i> , 2019 , 10, 2282	17.4	22
77	Improving the Acidic Stability of Zeolitic Imidazolate Frameworks by Biofunctional Molecules. <i>Chem</i> , 2019 , 5, 1597-1608	16.2	86
76	Modular Assembly of Biomaterials Using Polyphenols as Building Blocks. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5578-5596	5.5	62
75	Surface Engineering of Extracellular Vesicles through Chemical and Biological Strategies. <i>Chemistry of Materials</i> , 2019 , 31, 2191-2201	9.6	24
74	Superassembled Biocatalytic Porous Framework Micromotors with Reversible and Sensitive pH-Speed Regulation at Ultralow Physiological H ₂ O ₂ Concentration. <i>Advanced Functional Materials</i> , 2019 , 29, 1808900	15.6	48
73	Self-Assembly: Targeted Therapy against Metastatic Melanoma Based on Self-Assembled Metal-Phenolic Nanocomplexes Comprised of Green Tea Catechin (Adv. Sci. 5/2019). <i>Advanced Science</i> , 2019 , 6, 1970028	13.6	2
72	Metal-Phenolic Nanoparticles: Self-Assembled Metal-Phenolic Nanoparticles for Enhanced Synergistic Combination Therapy against Colon Cancer (Adv. Biosys. 2/2019). <i>Advanced Biology</i> , 2019 , 3, 1970022	3.5	1

71	Protein Adsorption and Coordination-Based End-Tethering of Functional Polymers on Metal-Phenolic Network Films. <i>Biomacromolecules</i> , 2019 , 20, 1421-1428	6.9	24
70	Oxidation-Mediated Kinetic Strategies for Engineering Metal-Phenolic Networks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12563-12568	16.4	37
69	Oxidation-Mediated Kinetic Strategies for Engineering Metal-Phenolic Networks. <i>Angewandte Chemie</i> , 2019 , 131, 12693-12698	3.6	4
68	Porous Inorganic and Hybrid Systems for Drug Delivery: Future Promise in Combatting Drug Resistance and Translation to Botanical Applications. <i>Current Medicinal Chemistry</i> , 2019 , 26, 6107-6131	4.3	18
67	Continuous Metal-Organic Framework Biomineralization on Cellulose Nanocrystals: Extrusion of Functional Composite Filaments. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6287-6294	8.3	32
66	Phenolic Building Blocks for the Assembly of Functional Materials. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 1904-1927	16.4	189
65	Phenolische Bausteine für die Assemblierung von Funktionsmaterialien. <i>Angewandte Chemie</i> , 2019 , 131, 1920-1945	3.6	27
64	Engineering robust metal-phenolic network membranes for uranium extraction from seawater. <i>Energy and Environmental Science</i> , 2019 , 12, 607-614	35.4	151
63	Self-Assembled Metal-Phenolic Nanoparticles for Enhanced Synergistic Combination Therapy against Colon Cancer. <i>Advanced Biology</i> , 2019 , 3, e1800241	3.5	19
62	Targeted Therapy against Metastatic Melanoma Based on Self-Assembled Metal-Phenolic Nanocomplexes Comprised of Green Tea Catechin. <i>Advanced Science</i> , 2019 , 6, 1801688	13.6	71
61	Lignin nano- and microparticles as template for nanostructured materials: formation of hollow metal-phenolic capsules. <i>Green Chemistry</i> , 2018 , 20, 1335-1344	10	51
60	Thermal Transition of Bimetallic Metal-Phenolic Networks to Biomass-Derived Hierarchically Porous Nanofibers. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 972-976	4.5	13
59	Effective Removal of Toxic Heavy Metal Ions from Aqueous Solution by CaCO ₃ Microparticles. <i>Water, Air, and Soil Pollution</i> , 2018 , 229, 1	2.6	15
58	Biomimetic synthesis of coordination network materials: Recent advances in MOFs and MPNs. <i>Applied Materials Today</i> , 2018 , 10, 93-105	6.6	51
57	Synthesis of Metal Nanoparticles in Metal-Phenolic Networks: Catalytic and Antimicrobial Applications of Coated Textiles. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700934	10.1	42
56	Self-Assembly of Nano- to Macroscopic Metal-Phenolic Materials. <i>Chemistry of Materials</i> , 2018 , 30, 5750-5768	9.6	38
55	Nano-Biohybrids: In Vivo Synthesis of Metal-Organic Frameworks inside Living Plants. <i>Small</i> , 2018 , 14, 1702958	11	43
54	Spray Assembly of Metal-Phenolic Networks: Formation, Growth, and Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33721-33729	9.5	61

53	Coatings super-repellent to ultralow surface tension liquids. <i>Nature Materials</i> , 2018 , 17, 1040-1047	27	190
52	Self-Assembled Nanoparticles from Phenolic Derivatives for Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700467	10.1	55
51	An Enzyme-Coated Metal-Organic Framework Shell for Synthetically Adaptive Cell Survival. <i>Angewandte Chemie</i> , 2017 , 129, 8630-8635	3.6	27
50	Metal-phenolic networks as a versatile platform to engineer nanomaterials and biointerfaces. <i>Nano Today</i> , 2017 , 12, 136-148	17.9	280
49	Biomimetic mineralization of metal-organic frameworks around polysaccharides. <i>Chemical Communications</i> , 2017 , 53, 1249-1252	5.8	54
48	Influence of Ionic Strength on the Deposition of Metal-Phenolic Networks. <i>Langmuir</i> , 2017 , 33, 10616-10622	4.22	44
47	An Enzyme-Coated Metal-Organic Framework Shell for Synthetically Adaptive Cell Survival. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8510-8515	16.4	120
46	Improving Targeting of Metal-Phenolic Capsules by the Presence of Protein Coronas. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22914-22	9.5	49
45	Innovation in Layer-by-Layer Assembly. <i>Chemical Reviews</i> , 2016 , 116, 14828-14867	68.1	521
44	Controlling the Growth of Metal-Organic Frameworks Using Different Gravitational Forces. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4499-4504	2.3	8
43	Polymer Capsules for Plaque-Targeted In Vivo Delivery. <i>Advanced Materials</i> , 2016 , 28, 7703-7	24	28
42	Metal-Organic Framework Coatings as Cytoprotective Exoskeletons for Living Cells. <i>Advanced Materials</i> , 2016 , 28, 7910-7914	24	192
41	Engineered Metal-Phenolic Capsules Show Tunable Targeted Delivery to Cancer Cells. <i>Biomacromolecules</i> , 2016 , 17, 2268-76	6.9	70
40	Ag Nanoparticle/Polydopamine-Coated Inverse Opals as Highly Efficient Catalytic Membranes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3250-7	9.5	44
39	Thermally Induced Charge Reversal of Layer-by-Layer Assembled Single-Component Polymer Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7449-55	9.5	23
38	A Framework to Account for Sedimentation and Diffusion in Particle-Cell Interactions. <i>Langmuir</i> , 2016 , 32, 12394-12402	4	41
37	Immobilized Particle Imaging for Quantification of Nano- and Microparticles. <i>Langmuir</i> , 2016 , 32, 3532-40	4	12
36	Nanoengineered Templated Polymer Particles: Navigating the Biological Realm. <i>Accounts of Chemical Research</i> , 2016 , 49, 1139-48	24.3	105

35	Modular assembly of superstructures from polyphenol-functionalized building blocks. <i>Nature Nanotechnology</i> , 2016 , 11, 1105-1111	28.7	251
34	Capsosomes as Long-Term Delivery Vehicles for Protein Therapeutics. <i>Langmuir</i> , 2015 , 31, 7776-81	4	26
33	Redox-Sensitive PEG-Polypeptide Nanoporous Particles for Survivin Silencing in Prostate Cancer Cells. <i>Biomacromolecules</i> , 2015 , 16, 2168-78	6.9	32
32	Multilayer assembly. Technology-driven layer-by-layer assembly of nanofilms. <i>Science</i> , 2015 , 348, aaa2493-3	33.3	1031
31	Flow-Based Assembly of Layer-by-Layer Capsules through Tangential Flow Filtration. <i>Langmuir</i> , 2015 , 31, 9054-60	4	27
30	Lead(II) uptake by aluminium based magnetic framework composites (MFCs) in water. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19822-19831	13	112
29	Nanoporous Metal-Phenolic Particles as Ultrasound Imaging Probes for Hydrogen Peroxide. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2170-2175	10.1	42
28	Boronate-Phenolic Network Capsules with Dual Response to Acidic pH and cis-Diols. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1796-801	10.1	43
27	Biomimetic Replication of Microscopic Metal-Organic Framework Patterns Using Printed Protein Patterns. <i>Advanced Materials</i> , 2015 , 27, 7293-8	24	85
26	Unravelling "off-target" effects of redox-active polymers and polymer multilayered capsules in prostate cancer cells. <i>Nanoscale</i> , 2015 , 7, 6261-70	7.7	8
25	Assembly-Controlled Permeability of Layer-by-Layer Polymeric Microcapsules Using a Tapered Fluidized Bed. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27940-7	9.5	17
24	pH-Responsive Capsules Engineered from Metal-Phenolic Networks for Anticancer Drug Delivery. <i>Small</i> , 2015 , 11, 2032-6	11	160
23	Engineering poly(ethylene glycol) particles for improved biodistribution. <i>ACS Nano</i> , 2015 , 9, 1571-80	16.7	119
22	Versatile Loading of Diverse Cargo into Functional Polymer Capsules. <i>Advanced Science</i> , 2015 , 2, 1400007	3.6	32
21	Engineering multifunctional capsules through the assembly of metal-phenolic networks. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5546-51	16.4	540
20	Peptide-tunable drug cytotoxicity via one-step assembled polymer nanoparticles. <i>Advanced Materials</i> , 2014 , 26, 2398-402	24	40
19	Nanoscale engineering of low-fouling surfaces through polydopamine immobilisation of zwitterionic peptides. <i>Soft Matter</i> , 2014 , 10, 2656-63	3.6	84
18	Fluidized bed layer-by-layer microcapsule formation. <i>Langmuir</i> , 2014 , 30, 10028-34	4	31

17	Self-assembled stimuli-responsive polyrotaxane core-shell particles. <i>Biomacromolecules</i> , 2014 , 15, 53-9	6.9	33
16	Engineering Multifunctional Capsules through the Assembly of Metal-Phenolic Networks. <i>Angewandte Chemie</i> , 2014 , 126, 5652-5657	3.6	99
15	Titelbild: Engineering Multifunctional Capsules through the Assembly of Metal-Phenolic Networks (Angew. Chem. 22/2014). <i>Angewandte Chemie</i> , 2014 , 126, 5579-5579	3.6	1
14	Phenolic film engineering for template-mediated microcapsule preparation. <i>Polymer Journal</i> , 2014 , 46, 452-459	2.7	45
13	Endocytic capsule sensors for probing cellular internalization. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1551-4, 1524	10.1	14
12	Tuning particle biodegradation through polymer-peptide blend composition. <i>Biomacromolecules</i> , 2014 , 15, 4429-38	6.9	8
11	Endocytic pH-triggered degradation of nanoengineered multilayer capsules. <i>Advanced Materials</i> , 2014 , 26, 1901-5	24	55
10	Biomedical Applications: Endocytic pH-Triggered Degradation of Nanoengineered Multilayer Capsules (Adv. Mater. 12/2014). <i>Advanced Materials</i> , 2014 , 26, 1947-1947	24	
9	Convective polymer assembly for the deposition of nanostructures and polymer thin films on immobilized particles. <i>Nanoscale</i> , 2014 , 6, 13416-20	7.7	16
8	One-step assembly of coordination complexes for versatile film and particle engineering. <i>Science</i> , 2013 , 341, 154-7	33.3	1227
7	Multivalent directed assembly of colloidal particles. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3314-6	16.4	7
6	Stiffness-mediated adhesion of cervical cancer cells to soft hydrogel films. <i>Soft Matter</i> , 2013 , 9, 4580	3.6	23
5	Preparation of nano- and microcapsules by electrophoretic polymer assembly. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6455-8	16.4	65
4	Immersive polymer assembly on immobilized particles for automated capsule preparation. <i>Advanced Materials</i> , 2013 , 25, 6874-8	24	50
3	Multivalente gerichtete Organisation von kolloidalen Partikeln. <i>Angewandte Chemie</i> , 2013 , 125, 3396-3398	3.6	1
2	Preparation of Nano- and Microcapsules by Electrophoretic Polymer Assembly. <i>Angewandte Chemie</i> , 2013 , 125, 6583-6586	3.6	5
1	A Simple and Feasible Synthetic Strategy towards Poly(4-thiostyrene). <i>Macromolecular Chemistry and Physics</i> , 2200092	2.6	