

# John T Mcdevitt

## 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.

161  
papers

5,706  
citations

39  
h-index

72  
g-index

173  
ext. papers

6,135  
ext. citations

7.1  
avg, IF

5.03  
L-index

#	Paper	IF	Citations
161	Predictive modeling of morbidity and mortality in COVID-19 hospitalized patients and its clinical implications <b>2021</b> ,		1
160	Predictive Modeling of Morbidity and Mortality in Patients Hospitalized With COVID-19 and its Clinical Implications: Algorithm Development and Interpretation. <i>Journal of Medical Internet Research</i> , <b>2021</b> , 23, e29514	7.6	4
159	Clinical decision support tool and rapid point-of-care platform for determining disease severity in patients with COVID-19. <i>Lab on A Chip</i> , <b>2020</b> , 20, 2075-2085	7.2	52
158	Point-of-care oral cytology tool for the screening and assessment of potentially malignant oral lesions. <i>Cancer Cytopathology</i> , <b>2020</b> , 128, 207-220	3.9	14
157	Managing COVID-19 With a Clinical Decision Support Tool in a Community Health Network: Algorithm Development and Validation. <i>Journal of Medical Internet Research</i> , <b>2020</b> , 22, e22033	7.6	18
156	Clinical Decision Support Tool and Rapid Point-of-Care Platform for Determining Disease Severity in Patients with COVID-19 <b>2020</b> ,		9
155	Sensors that Learn: The Evolution from Taste Fingerprints to Patterns of Early Disease Detection. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	6
154	Development of a cytology-based multivariate analytical risk index for oral cancer. <i>Oral Oncology</i> , <b>2019</b> , 92, 6-11	4.4	9
153	Risk Stratification of Oral Potentially Malignant Disorders in Fanconi Anemia Patients Using Autofluorescence Imaging and Cytology-On-A Chip Assay. <i>Translational Oncology</i> , <b>2018</b> , 11, 477-486	4.9	6
152	Salivary and serum adiponectin and C-reactive protein levels in acute myocardial infarction related to body mass index and oral health. <i>Journal of Periodontal Research</i> , <b>2017</b> , 52, 419-427	4.3	26
151	Innovative Programmable Bio-Nano-Chip Digitizes Biology Using Sensors That Learn Bridging Biomarker Discovery and Clinical Implementation. <i>Frontiers in Public Health</i> , <b>2017</b> , 5, 110	6	1
150	Challenges and opportunities for translating medical microdevices: insights from the programmable bio-nano-chip. <i>Bioanalysis</i> , <b>2016</b> , 8, 905-19	2.1	7
149	Cardiac ScoreCard: A Diagnostic Multivariate Index Assay System for Predicting a Spectrum of Cardiovascular Disease. <i>Expert Systems With Applications</i> , <b>2016</b> , 54, 136-147	7.8	22
148	Programmable Bio-nanochip Platform: A Point-of-Care Biosensor System with the Capacity To Learn. <i>Accounts of Chemical Research</i> , <b>2016</b> , 49, 1359-68	24.3	35
147	Point-of-Care Technologies for Precision Cardiovascular Care and Clinical Research: National Heart, Lung, and Blood Institute Working Group. <i>JACC Basic To Translational Science</i> , <b>2016</b> , 1, 73-86	8.7	34
146	'Cytology-on-a-chip' based sensors for monitoring of potentially malignant oral lesions. <i>Oral Oncology</i> , <b>2016</b> , 60, 103-11	4.4	25
145	Interobserver agreement in dysplasia grading: toward an enhanced gold standard for clinical pathology trials. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , <b>2015</b> , 120, 474-82.e2	2	54

144	A multiplexable, microfluidic platform for the rapid quantitation of a biomarker panel for early ovarian cancer detection at the point-of-care. <i>Cancer Prevention Research</i> , <b>2015</b> , 8, 37-48	3.2	44
143	Programmable bio-nano-chip system: a flexible point-of-care platform for bioscience and clinical measurements. <i>Lab on A Chip</i> , <b>2015</b> , 15, 4020-31	7.2	26
142	Programmable bio-nanochip-based cytologic testing of oral potentially malignant disorders in Fanconi anemia. <i>Oral Diseases</i> , <b>2015</b> , 21, 593-601	3.5	8
141	Programmable bio-nano-chip system: a flexible diagnostic platform that learns. <i>Journal of Biosensors &amp; Bioelectronics</i> , <b>2015</b> , 6,		2
140	Enhancement of performance in porous bead-based microchip sensors: Effects of chip geometry on bio-agent capture. <i>RSC Advances</i> , <b>2015</b> , 5, 48194-48206	3.7	3
139	Application of programmable bio-nano-chip system for the quantitative detection of drugs of abuse in oral fluids. <i>Drug and Alcohol Dependence</i> , <b>2015</b> , 153, 306-13	4.9	23
138	Next Generation Programmable Bio-Nano-Chip System for On-Site Detection in Oral Fluids. <i>Journal of Drug Abuse</i> , <b>2015</b> , 1, 1-6		3
137	Utility of salivary biomarkers for demonstrating acute myocardial infarction. <i>Journal of Dental Research</i> , <b>2014</b> , 93, 725-795	8.1	40
136	Programmable bio-nano-chip system for saliva diagnostics <b>2014</b> ,		1
135	Hot embossed polyethylene through-hole chips for bead-based microfluidic devices. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 42, 653-60	11.8	18
134	Effects of sample delivery on analyte capture in porous bead sensors. <i>Lab on A Chip</i> , <b>2012</b> , 12, 5249-56	7.2	10
133	Modeling analyte transport and capture in porous bead sensors. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 2569-75	7.8	16
132	Oral fluids that detect cardiovascular disease biomarkers. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , <b>2012</b> , 114, 207-14	2	27
131	Salivary biomarkers associated with myocardial necrosis: results from an alcohol septal ablation model. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , <b>2012</b> , 114, 616-23	2	12
130	Porous bead-based diagnostic platforms: bridging the gaps in healthcare. <i>Sensors</i> , <b>2012</b> , 12, 15467-99	3.8	27
129	Programmable bio-nano-chip systems for serum CA125 quantification: toward ovarian cancer diagnostics at the point-of-care. <i>Cancer Prevention Research</i> , <b>2012</b> , 5, 706-16	3.2	31
128	Programmable bio-nanochip technology for the diagnosis of cardiovascular disease at the point-of-care. <i>Methodist DeBakey Cardiovascular Journal</i> , <b>2012</b> , 8, 6-12	2.1	33
127	Perspective on diagnostics for global health. <i>IEEE Pulse</i> , <b>2011</b> , 2, 40-50	0.7	43

126	A disposable bio-nano-chip using agarose beads for high performance immunoassays. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 28, 251-6	11.8	15
125	Location of biomarkers and reagents within agarose beads of a programmable bio-nano-chip. <i>Small</i> , <b>2011</b> , 7, 613-24	11	53
124	Nanodevices: Location of Biomarkers and Reagents within Agarose Beads of a Programmable Nano-bio-chip (Small 5/2011). <i>Small</i> , <b>2011</b> , 7, 612-612	11	
123	Translational and clinical applications of salivary diagnostics. <i>Advances in Dental Research</i> , <b>2011</b> , 23, 375-80	8	63
122	A new bio-nanochip sensor aids oral cancer detection. <i>SPIE Newsroom</i> , <b>2011</b> ,		7
121	Current developments in salivary diagnostics. <i>Biomarkers in Medicine</i> , <b>2010</b> , 4, 171-89	2.3	242
120	Programmable nano-bio-chips: multifunctional clinical tools for use at the point-of-care. <i>Nanomedicine</i> , <b>2010</b> , 5, 143-55	5.6	36
119	Nano-bio-chip sensor platform for examination of oral exfoliative cytology. <i>Cancer Prevention Research</i> , <b>2010</b> , 3, 518-28	3.2	81
118	Programmable nano-bio-chip sensors: analytical meets clinical. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 1571-9	7.8	55
117	Nano-bio-chips for high performance multiplexed protein detection: determinations of cancer biomarkers in serum and saliva using quantum dot bioconjugate labels. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 3622-9	11.8	206
116	Use of saliva-based nano-biochip tests for acute myocardial infarction at the point of care: a feasibility study. <i>Clinical Chemistry</i> , <b>2009</b> , 55, 1530-8	5.5	141
115	Immobilization of a hexaphyrin(1.0.1.0.0.0) derivative onto a tentagel-amino resin and its use in uranyl cation detection. <i>Dalton Transactions</i> , <b>2008</b> , 1538-40	4.3	23
114	Integration of semiconductor quantum dots into nano-bio-chip systems for enumeration of CD4+ T cell counts at the point-of-need. <i>Lab on A Chip</i> , <b>2008</b> , 8, 2079-90	7.2	58
113	Cell-based sensor for analysis of EGFR biomarker expression in oral cancer. <i>Lab on A Chip</i> , <b>2007</b> , 7, 995-1003	10.3	79
112	Boronic acid based peptidic receptors for pattern-based saccharide sensing in neutral aqueous media, an application in real-life samples. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 13575-83	16.4	157
111	The discriminatory power of differential receptor arrays is improved by prescreening-a demonstration in the analysis of tachykinins and similar peptides. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8212-5	16.4	15
110	Direct imaging by atomic force microscopy of surface-localized self-assembled monolayers on a cuprate superconductor and surface X-ray scattering analysis of analogous monolayers on the surface of water. <i>Thin Solid Films</i> , <b>2007</b> , 515, 8424-8429	2.2	
109	Lab-on-a-chip methods for point-of-care measurements of salivary biomarkers of periodontitis. <i>Annals of the New York Academy of Sciences</i> , <b>2007</b> , 1098, 411-28	6.5	101

108	A microchip-based assay for interleukin-6. <i>Methods in Molecular Biology</i> , <b>2007</b> , 385, 131-44	1.4	11
107	Microchip-based enumeration of human white blood cells. <i>Methods in Molecular Biology</i> , <b>2007</b> , 385, 53-64.	4	4
106	A Continuous-Flow Polymerase Chain Reaction Microchip With Regional Velocity Control. <i>Journal of Microelectromechanical Systems</i> , <b>2006</b> , 15, 223-236	2.5	54
105	Application of microchip assay system for the measurement of C-reactive protein in human saliva. <i>Lab on A Chip</i> , <b>2005</b> , 5, 261-9	7.2	186
104	A differential array of metalated synthetic receptors for the analysis of tripeptide mixtures. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 17405-11	16.4	59
103	Toward the development of a lab-on-a-chip dual-function leukocyte and C-reactive protein analysis method for the assessment of inflammation and cardiac risk. <i>Clinical Chemistry</i> , <b>2005</b> , 51, 2391-5	5.5	27
102	Membrane-based on-line optical analysis system for rapid detection of bacteria and spores. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 20, 2079-88	11.8	59
101	A microbead array chemical sensor using capillary-based sample introduction: toward the development of an "electronic tongue". <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 21, 303-12	11.8	65
100	Disposable polydimethylsiloxane/silicon hybrid chips for protein detection. <i>Biosensors and Bioelectronics</i> , <b>2005</b> , 21, 574-80	11.8	29
99	Differential receptors create patterns that distinguish various proteins. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 6375-8	16.4	122
98	Differential Receptors Create Patterns That Distinguish Various Proteins. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 6533-6536	3.6	29
97	A microchip CD4 counting method for HIV monitoring in resource-poor settings. <i>PLoS Medicine</i> , <b>2005</b> , 2, e182	11.6	153
96	Preparation of polymer-covered metal nanorods and metal microcrystals by intrinsic two-dimensional crystalline lattice templating. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 3034-3046	2.5	
95	Self-assembled monolayer cleaning methods: Towards fabrication of clean high-temperature superconductor nanostructures. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 154104	3.4	5
94	Self Assembled Monolayer Methods in the Fabrication of High-Tc Superconductor SNS Junction Nano-Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 872, 1		
93	Molybdenum Dioxide and Vanadium-Doped Molybdenum Dioxide Microcrystals in a Polymer Container.. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 847, 245		
92	Disposable Polydimethylsiloxane/Silicon Hybrid Chips for Protein Detection <b>2004</b> , 331		1
91	Aptamer-based sensor arrays for the detection and quantitation of proteins. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 4066-75	7.8	274

90	Evidence for high stability against water corrosion of NdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> relative to YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> and EuBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> <i>Applied Physics Letters</i> , <b>2004</b> , 84, 1144-1146	3.4	13
89	Two-Dimensional Crystalline Lattice Templating: A New Method for the Preparation of Polymer-Covered Metal and Alloyed Metal Nanorods by a Redox Process.. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 847, 239		
88	A Multicomponent Sensing Ensemble in Solution: Differentiation between Structurally Similar Analytes. <i>Angewandte Chemie</i> , <b>2003</b> , 115, 2116-2118	3.6	20
87	A multicomponent sensing ensemble in solution: differentiation between structurally similar analytes. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 2070-2	16.4	110
86	Citrate and calcium determination in flavored vodkas using artificial neural networks. <i>Tetrahedron</i> , <b>2003</b> , 59, 10089-10092	2.4	69
85	DNA hybridization and discrimination of single-nucleotide mismatches using chip-based microbead arrays. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4732-9	7.8	136
84	Multishell microspheres with integrated chromatographic and detection layers for use in array sensors. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 2870-1	16.4	31
83	Differential receptors create patterns diagnostic for ATP and GTP. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 1114-5	16.4	207
82	Mimicking the Mammalian Sense of Taste Through Single-Component and Multicomponent Analyte Sensors. <i>ACS Symposium Series</i> , <b>2002</b> , 276-288	0.4	2
81	A microchip-based multianalyte assay system for the assessment of cardiac risk. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 3030-6	7.8	144
80	In Vitro Taste Sensors: Technology and Applications. <i>ACS Symposium Series</i> , <b>2002</b> , 262-275	0.4	
79	Characterization of multicomponent monosaccharide solutions using an enzyme-based sensor array. <i>Analytical Biochemistry</i> , <b>2001</b> , 293, 178-84	3.1	36
78	Development of multianalyte sensor arrays composed of chemically derivatized polymeric microspheres localized in micromachined cavities. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 2559-70	16.4	171
77	Development of a Micromachined Fluidic Structure for a Biological and Chemical Sensor Array <b>2001</b> , 177-178		
76	Grain-boundary room-temperature low-field magnetoresistance in Sr <sub>2</sub> FeMoO <sub>6</sub> films. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 6761-6763	2.5	47
75	Self-Assembly of Conjugated Polymers at the Air/Water Interface. Structure and Properties of Langmuir and Langmuir-Blodgett Films of Amphiphilic Regioregular Polythiophenes. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 5788-5800	16.4	166
74	Stability measurement of double-side-surface-coated Bi-2212 tape conductors in water environment. <i>Superconductor Science and Technology</i> , <b>1999</b> , 12, 601-605	3.1	1
73	Lithographically patterned superconductor bolometer detectors for visible and near-infrared radiation incorporating wavelength-selective light-absorbing elements <b>1999</b> , 3790, 160		1

72	Intra- versus intergranular low-field magnetoresistance of Sr <sub>2</sub> FeMoO <sub>6</sub> thin films. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2812-2814	3.4	97
71	A Four Color Optical Sensor: Wavelength-Selective Dye/Superconductor Assemblies. <i>ACS Symposium Series</i> , <b>1999</b> , 278-291	0.4	1
70	Polythiophene Nanowires. <i>Advanced Materials</i> , <b>1999</b> , 11, 1218-1221	24	65
69	Effect of tolerance factor and local distortion on magnetic properties of the perovskite manganites. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1146-1148	3.4	56
68	Improved J <sub>c</sub> of bilayer YBa <sub>2</sub> /Cu <sub>3</sub> O <sub>7-δ</sub> thin film structures. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1999</b> , 9, 2002-2005	1.8	1
67	Surface Cleaning and Adsorbate Layer Formation: Dual Role of Alkylamines in the Formation of Self-Assembled Monolayers on Cuprate Superconductors. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 7447-7448	16.4	12
66	Structural Characteristics of Self-Assembled Monolayers on a High-T <sub>c</sub> Superconductor Probed by Reflection-Absorption Infrared Spectroscopy. <i>ACS Symposium Series</i> , <b>1999</b> , 168-179	0.4	0
65	MacSpartan Plus Wavefunction, Inc., 18401 Von Karman, Suite 370, Irvine, CA 92612. Phone: (714) 995-2120. E-mail: [email protected], <a href="http://www.wavefun.com">http://www.wavefun.com</a> . Pricing: academic \$449, government \$749, commercial \$999. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 847-847	16.4	
64	Surface Coordination Chemistry of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . <i>Langmuir</i> , <b>1998</b> , 14, 6505-6511	4	20
63	Solution-Based Analysis of Multiple Analytes by a Sensor Array: Toward the Development of an Electronic Tongue. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 6429-6430	16.4	187
62	Infrared and Computational Studies of Spontaneously Adsorbed Amine Reagents on YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> : Structural Characterization of Monolayers atop Anisotropic Superconductor Surfaces. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 2733-2745	16.4	16
61	Solution-based analysis of multiple analytes by a sensor array: toward the development of an electronic tongue <b>1998</b> , 3539, 17		1
60	Thermal diffusivity measurements of sub-micron organic dye thin films using a high temperature superconductor bolometer. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3387-3389	3.4	4
59	Improved N-layer materials for high-T <sub>c</sub> superconductor/normal-metal/superconductor junctions and superconducting quantum interference device sensors. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 848-850	3.4	7
58	Crystal Engineering for High-T <sub>c</sub> Devices <b>1998</b> , 289-292		
57	Development of a reliable materials base for superconducting electronics. <i>Journal of Materials Research</i> , <b>1997</b> , 12, 2958-2975	2.5	21
56	Application of superconducting technologies as chemical/biological agent electronic eyes <b>1997</b> , 2933, 48		
55	Color selective optical sensors based on dye/superconductor assemblies. <i>IEEE Transactions on Applied Superconductivity</i> , <b>1997</b> , 7, 3255-3258	1.8	

54	Enhanced Wavelength Selectivity in Molecular Dye Modified High-Tc Superconducting Detectors Using Mirror-Layer Structures. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 1377-1384	9.6	2
53	Conductive polymer/high-Tc superconductor bilayer structures. <i>Synthetic Metals</i> , <b>1997</b> , 85, 1319-1322	3.6	3
52	Molecular engineering of organic conductor / high-Tc superconductor assemblies. <i>Synthetic Metals</i> , <b>1997</b> , 84, 407-408	3.6	1
51	Environmental degradation properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> and Y <sub>0.6</sub> Ca <sub>0.4</sub> Ba <sub>1.6</sub> La <sub>0.4</sub> Cu <sub>3</sub> O <sub>7</sub> thin film structures. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 273, 223-232	1.3	20
50	Use of a Self-Assembled Monolayer for the Preparation of Crystalline Organic Superconductor/High-Tc Superconductor Structures. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 2693-2696	9.6	6
49	Do Alkanethiols Adsorb onto the Surfaces of TlBaCaCuO-Based High-Temperature Superconductors? The Critical Role of H <sub>2</sub> O Content on the Adsorption Process. <i>Langmuir</i> , <b>1996</b> , 12, 2622-2624 <sup>15</sup>	4.2	15
48	Molecular Level Control over the Surface and Interfacial Properties of High-Tc Superconductors. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 811-813	9.6	15
47	Polypyrrole Growth on YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> Modified with a Self-Assembled Monolayer of N-(3-Aminopropyl)pyrrole: Hardwiring the Electroactive Hot Spots on a Superconductor Electrode. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 11295-11296	16.4	24
46	Antenna-coupled high-Tc bolometers for visible and near-infrared detection using organic dyes as light-harvesting layers. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 688-690	3.4	5
45	Organic conductor/high-T c superconductor bilayer structures <b>1996</b> ,		7
44	Physical and chemical properties of (Y <sub>1-x</sub> Cax)(Ba <sub>2-x</sub> Lax)Cu <sub>3</sub> O <sub>7</sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1995</b> , 8, 651-652		5
43	Chain contribution to the Seebeck coefficient in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Physical Review B</i> , <b>1995</b> , 51, 3250-3253	3.3	28
42	Morphological Studies of Conductive Polymers Deposited onto High-Tc Superconductors. <i>ACS Symposium Series</i> , <b>1995</b> , 308-316	0.4	1
41	Surveying the Surface Coordination Chemistry of a Superconductor: Spontaneous Adsorption of Monolayer Films of Redox-Active "Ligands" on YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 6374-6375	16.4	31
40	Possible induction of superconductivity in conductive polymer structures. <i>Synthetic Metals</i> , <b>1995</b> , 71, 1539-1542	3.6	4
39	Improved corrosion resistance of cation substituted YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>Applied Physics Letters</i> , <b>1995</b> , 66, 2900-2902	3.4	27
38	Electrochemical and optical devices based on molecule/high-Tc superconductor structures. <i>Electrochimica Acta</i> , <b>1995</b> , 40, 1319-1329	6.7	3
37	Preparation and Characterization of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> /Polypyrrole Bilayer Structures. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 9979-9986	16.4	14



36	Chemically Tailored, Corrosion Resistant, High-Tc Phases. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 9389-9390	16.4	18
35	Reversible modulation of superconductivity in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> /polypyrrole sandwich structures <b>1994</b> , 2158, 238		8
34	Conductive Polymer/Superconductor Thin Film Assemblies. <i>Molecular Crystals and Liquid Crystals</i> , <b>1994</b> , 256, 571-576		2
33	Molecule/High-Tc Superconductor Structures as Optical Sensors. <i>Molecular Crystals and Liquid Crystals</i> , <b>1994</b> , 256, 577-582		1
32	Relative corrosion reactivity and surface microstructure of yttrium barium copper oxide (YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> ) samples with different oxygen contents. <i>Chemistry of Materials</i> , <b>1993</b> , 5, 361-365	9.6	23
31	Electrochemistry of high-temperature superconductors. Challenges and opportunities. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 535A-545A	7.8	24
30	Contact resistance measurements recorded at conductive polymer/high-temperature superconductor interfaces. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 7796-7799		17
29	Reversible modulation of Tc in conductive polymer/high temperature superconductor assemblies. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 1196-1198	16.4	30
28	Conductive Polymer / High-Tc Superconductor Assemblies. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 304, 55		
27	Fabrication of Organic Dye-Coated High-TC Superconductor Optical Devices: Interface Chemistry and Properties. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 328, 751		1
26	Conductive Polymer Switch for Controlling Superconductivity. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 328, 757		1
25	Conductive Polymer / Superconductor Sandwich Structures. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 318, 671		
24	Reaction of the oxygen-deficient YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6</sub> phase with water. <i>Solid State Communications</i> , <b>1993</b> , 86, 11-14	1.6	19
23	Environmental reactivity characteristics of K <sub>3</sub> C <sub>60</sub> and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> high-temperature superconductor thin films. <i>Solid State Communications</i> , <b>1993</b> , 88, 431-434	1.6	9
22	Environmental reactivity characteristics of copper-oxide superconductors. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 548-550	3.4	29
21	Electrochemical Response of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> as a Function of Oxygen Content. <i>Journal of the Electrochemical Society</i> , <b>1992</b> , 139, 2340-2346	3.9	6
20	Relative Reactivity Trends OP High Temperature Superconductor Phases. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 275, 711		2
19	Response of the double-layer capacitance of a high-temperature superconductor/fluid electrolyte interface to the onset of superconductivity. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 6771-6775	16.4	24

18	Electrochemical investigations of various high-temperature superconductor phases. <i>Chemistry of Materials</i> , <b>1992</b> , 4, 1176-1181	9.6	2
17	Optical devices based on dye-coated superconductor junctions: an example of a composite molecule-superconductor device. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 2737-2738	16.4	14
16	Corrosion reactions of yttrium barium copper oxide (YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> ) and thallium barium calcium copper oxide (Tl <sub>2</sub> Ba <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10+x</sub> ) superconductor phases in aqueous environments. <i>Chemistry of Materials</i> , <b>1992</b> , 4, 953-959	9.6	31
15	Preparation, Characterization and Room Temperature Electrochemical Response of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> Superconductor Microband Electrodes. <i>Journal of the Electrochemical Society</i> , <b>1991</b> , 138, 1346-1350	3.9	4
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13	Electrochemically assessed corrosion reactivity of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , <b>1990</b> , 295, 373-384		16
12	A Search for New Classes of Conducting Polymers using 4d and 5d Metal Porphyrin Complexes <b>1990</b> , 359-366		2
11	Epoxy-Encapsulated Ceramic Superconductor Microelectrodes. <i>Journal of the Electrochemical Society</i> , <b>1989</b> , 136, 3696-3701	3.9	6
10	XAS studies of ruthenium octaethylporphyrin dimers. <i>Physica B: Condensed Matter</i> , <b>1989</b> , 158, 217-218	2.8	1
9	Fluid electrolyte solutions for electrochemistry at near liquid nitrogen temperatures. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 4528-4529	16.4	30
8	X-Ray absorption spectroscopic studies of ruthenium octaethylporphyrin dimers. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1989</b> , 1360-1362		9
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