

David R Walt

List of Publications by Year in descending order

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140
papers

9,699
citations

53794

45
h-index

42399

92
g-index

159
all docs

159
docs citations

159
times ranked

11758
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-molecule enzyme-linked immunosorbent assay detects serum proteins at subfemtomolar concentrations. <i>Nature Biotechnology</i> , 2010, 28, 595-599.	17.5	1,557
2	How many human proteoforms are there?. <i>Nature Chemical Biology</i> , 2018, 14, 206-214.	8.0	580
3	A chemical-detecting system based on a cross-reactive optical sensor array. <i>Nature</i> , 1996, 382, 697-700.	27.8	406
4	Advancing the speed, sensitivity and accuracy of biomolecular detection using multi-length-scale engineering. <i>Nature Nanotechnology</i> , 2014, 9, 969-980.	31.5	349
5	Randomly Ordered Addressable High-Density Optical Sensor Arrays. <i>Analytical Chemistry</i> , 1998, 70, 1242-1248.	6.5	318
6	Screening unlabeled DNA targets with randomly ordered fiber-optic gene arrays. <i>Nature Biotechnology</i> , 2000, 18, 91-94.	17.5	273
7	Nanosphere [®] Microsphere Assembly: A Methods for Core [®] Shell Materials Preparation. <i>Chemistry of Materials</i> , 2001, 13, 2210-2216.	6.7	232
8	Highly Sensitive and Multiplexed Protein Measurements. <i>Chemical Reviews</i> , 2019, 119, 293-321.	47.7	187
9	Optical Methods for Single Molecule Detection and Analysis. <i>Analytical Chemistry</i> , 2013, 85, 1258-1263.	6.5	185
10	Convergent, Self-Encoded Bead Sensor Arrays in the Design of an Artificial Nose. <i>Analytical Chemistry</i> , 1999, 71, 2192-2198.	6.5	179
11	Digital Concentration Readout of Single Enzyme Molecules Using Femtoliter Arrays and Poisson Statistics. <i>Nano Letters</i> , 2006, 6, 520-523.	9.1	177
12	Multisystem inflammatory syndrome in children is driven by zonulin-dependent loss of gut mucosal barrier. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	170
13	Ordered Nanowell Arrays. <i>Chemistry of Materials</i> , 1996, 8, 2832-2835.	6.7	146
14	Circulating Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Vaccine Antigen Detected in the Plasma of mRNA-1273 Vaccine Recipients. <i>Clinical Infectious Diseases</i> , 2022, 74, 715-718.	5.8	141
15	Single Molecule Protein Detection with Attomolar Sensitivity Using Droplet Digital Enzyme-Linked Immunosorbent Assay. <i>ACS Nano</i> , 2020, 14, 9491-9501.	14.6	138
16	Ultra-Sensitive Serial Profiling of SARS-CoV-2 Antigens and Antibodies in Plasma to Understand Disease Progression in COVID-19 Patients with Severe Disease. <i>Clinical Chemistry</i> , 2020, 66, 1562-1572.	3.2	134
17	Mechanistic Aspects of Horseradish Peroxidase Elucidated through Single-Molecule Studies. <i>Journal of the American Chemical Society</i> , 2009, 131, 6277-6282.	13.7	129
18	Finding useful biomarkers for Parkinson [®] 's disease. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	125

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19	Distinct and Long-Lived Activity States of Single Enzyme Molecules. <i>Journal of the American Chemical Society</i> , 2008, 130, 5349-5353.	13.7	119
20	L1CAM is not associated with extracellular vesicles in human cerebrospinal fluid or plasma. <i>Nature Methods</i> , 2021, 18, 631-634.	19.0	118
21	Stochastic inhibitor release and binding from single-enzyme molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17680-17685.	7.1	115
22	CHEMISTRY: Miniature Analytical Methods for Medical Diagnostics. <i>Science</i> , 2005, 308, 217-219.	12.6	114
23	Ultrasensitive high-resolution profiling of early seroconversion in patients with COVID-19. <i>Nature Biomedical Engineering</i> , 2020, 4, 1180-1187.	22.5	110
24	Competitive Immunoassays for the Detection of Small Molecules Using Single Molecule Arrays. <i>Journal of the American Chemical Society</i> , 2018, 140, 18132-18139.	13.7	102
25	Single-Molecule Arrays for Protein and Nucleic Acid Analysis. <i>Annual Review of Analytical Chemistry</i> , 2017, 10, 345-363.	5.4	101
26	A fibre-optic chemical sensor with discrete sensing sites. <i>Nature</i> , 1991, 353, 338-340.	27.8	98
27	Fibre optic microarrays. <i>Chemical Society Reviews</i> , 2010, 39, 38-50.	38.1	97
28	Digital direct detection of microRNAs using single molecule arrays. <i>Nucleic Acids Research</i> , 2017, 45, e137-e137.	14.5	91
29	Digital Readout of Target Binding with Attomole Detection Limits via Enzyme Amplification in Femtoliter Arrays. <i>Journal of the American Chemical Society</i> , 2006, 128, 6286-6287.	13.7	90
30	Ultrasensitive Detection of Attomolar Protein Concentrations by Dropcast Single Molecule Assays. <i>Journal of the American Chemical Society</i> , 2020, 142, 12314-12323.	13.7	90
31	Donor Clonal Hematopoiesis and Recipient Outcomes After Transplantation. <i>Journal of Clinical Oncology</i> , 2022, 40, 189-201.	1.6	79
32	Microsphere-Based Rolling Circle Amplification Microarray for the Detection of DNA and Proteins in a Single Assay. <i>Analytical Chemistry</i> , 2009, 81, 5777-5782.	6.5	78
33	Plasma IL-6 changes correlate to PD-1 inhibitor responses in NSCLC. , 2020, 8, e000678.		78
34	Direct Detection of Bacterial Genomic DNA at Sub-Femtomolar Concentrations Using Single Molecule Arrays. <i>Analytical Chemistry</i> , 2013, 85, 1932-1939.	6.5	73
35	Analytical Chemistry on the Femtoliter Scale. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3880-3895.	13.8	72
36	Single molecule array (Simoa) assay with optimal antibody pairs for cytokine detection in human serum samples. <i>Analyst, The</i> , 2015, 140, 6277-6282.	3.5	69

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37	Can mHealth Technology Help Mitigate the Effects of the COVID-19 Pandemic?. IEEE Open Journal of Engineering in Medicine and Biology, 2020, 1, 243-248.	2.3	69
38	Detection of Single-Molecule DNA Hybridization Using Enzymatic Amplification in an Array of Femtoliter-Sized Reaction Vessels. Journal of the American Chemical Society, 2008, 130, 12622-12623.	13.7	67
39	A Combinatorial Approach To Discover New Chelators for Optical Metal Ion Sensing. Analytical Chemistry, 2000, 72, 5250-5257.	6.5	65
40	An olfactory neuronal network for vapor recognition in an artificial nose. Biological Cybernetics, 1998, 78, 245-251.	1.3	58
41	CMOS Microelectrode Array for Electrochemical Lab-on-a-Chip Applications. IEEE Sensors Journal, 2009, 9, 609-615.	4.7	58
42	Synthesis of gold-poly(methyl methacrylate) core-shell nanoparticles by surface-confined atom transfer radical polymerization at elevated temperature. Journal of Polymer Science Part A, 2005, 43, 3631-3642.	2.3	55
43	Lessons learned from the introduction of personalized genotyping into a medical school curriculum. Genetics in Medicine, 2011, 13, 63-66.	2.4	54
44	An automated integrated platform for rapid and sensitive multiplexed protein profiling using human saliva samples. Lab on A Chip, 2014, 14, 1087.	6.0	54
45	An imaging fiber-based optical tweezer array for microparticle array assembly. Applied Physics Letters, 2004, 84, 4289-4291.	3.3	53
46	Framework for rapid comparison of extracellular vesicle isolation methods. ELife, 2021, 10, .	6.0	51
47	High-Throughput, High-Multiplex Digital Protein Detection with Attomolar Sensitivity. ACS Nano, 2022, 16, 1025-1035.	14.6	51
48	Disease Detection by Ultrasensitive Quantification of Microdosed Synthetic Urinary Biomarkers. Journal of the American Chemical Society, 2014, 136, 13709-13714.	13.7	50
49	Parkinson's disease biomarkers: perspective from the NINDS Parkinson's Disease Biomarkers Program. Biomarkers in Medicine, 2017, 11, 451-473.	1.4	49
50	Imaging optical sensor arrays. Current Opinion in Chemical Biology, 2002, 6, 689-695.	6.1	46
51	An Autonomous Sensor and Telemetry System for Low-Level pCO ₂ Measurements in Seawater. Analytical Chemistry, 1999, 71, 154-161.	6.5	45
52	Ultrasensitive Detection of Ricin Toxin in Multiple Sample Matrixes Using Single-Domain Antibodies. Analytical Chemistry, 2015, 87, 6570-6577.	6.5	45
53	Simultaneous detection of small molecules, proteins and microRNAs using single molecule arrays. Chemical Science, 2020, 11, 7896-7903.	7.4	45
54	A Fiber-Optic Carbon Dioxide Sensor for Fermentation Monitoring. Nature Biotechnology, 1995, 13, 597-601.	17.5	44

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55	Optical fiber bundles. FEBS Journal, 2007, 274, 5462-5470.	4.7	44
56	Fiber-optic array using molecularly imprinted microspheres for antibiotic analysis. Chemical Science, 2015, 6, 3139-3147.	7.4	44
57	A rapid triage test for active pulmonary tuberculosis in adult patients with persistent cough. Science Translational Medicine, 2019, 11, .	12.4	44
58	Toward a near-field optical array. Review of Scientific Instruments, 1997, 68, 1357-1359.	1.3	43
59	Ultra-sensitive protein detection via Single Molecule Arrays towards early stage cancer monitoring. Scientific Reports, 2015, 5, 11034.	3.3	43
60	Duplexed sandwich immunoassays on a fiber-optic microarray. Analytica Chimica Acta, 2006, 564, 34-39.	5.4	41
61	Oil-sealed femtoliter fiber-optic arrays for single molecule analysis. Lab on A Chip, 2012, 12, 2229.	6.0	41
62	Microsensor Arrays for Saliva Diagnostics. Annals of the New York Academy of Sciences, 2007, 1098, 389-400.	3.8	39
63	Protein Counting in Single Cancer Cells. Analytical Chemistry, 2016, 88, 2952-2957.	6.5	37
64	Single-Molecule Analysis Determines Isozymes of Human Alkaline Phosphatase in Serum. Angewandte Chemie - International Edition, 2020, 59, 18010-18015.	13.8	36
65	Salivary Inflammatory Mediator Profiling and Correlation to Clinical Disease Markers in Asthma. PLoS ONE, 2014, 9, e84449.	2.5	35
66	Long-Term Measurements of Human Inflammatory Cytokines Reveal Complex Baseline Variations between Individuals. American Journal of Pathology, 2017, 187, 2620-2626.	3.8	34
67	Simplified Digital Enzyme-Linked Immunosorbent Assay Using Tyramide Signal Amplification and Fibrin Hydrogels. ACS Sensors, 2020, 5, 3037-3042.	7.8	34
68	Ultrasensitive Measurement of Both SARS-CoV-2 RNA and Antibodies from Saliva. Analytical Chemistry, 2021, 93, 5365-5370.	6.5	34
69	Protective heterologous T cell immunity in COVID-19 induced by the trivalent MMR and Tdap vaccine antigens. Med, 2021, 2, 1050-1071.e7.	4.4	33
70	Ubiquitous Sensors: When Will They Be Here?. ACS Nano, 2009, 3, 2876-2880.	14.6	32
71	Ectopic Lymphoid Follicle Formation and Human Seasonal Influenza Vaccination Responses Recapitulated in an Organ-on-a-Chip. Advanced Science, 2022, 9, e2103241.	11.2	32
72	Protein measurements in microwells. Lab on A Chip, 2014, 14, 3195-3200.	6.0	31

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73	Incorporation of Slow Off-Rate Modified Aptamers Reagents in Single Molecule Array Assays for Cytokine Detection with Ultrahigh Sensitivity. <i>Analytical Chemistry</i> , 2016, 88, 8385-8389.	6.5	31
74	Fiber-optic Sensor for Continuous Monitoring of Fermentation pH. <i>Nature Biotechnology</i> , 1993, 11, 726-729.	17.5	30
75	Reverse Transcriptase Inhibition Disrupts Repeat Element Life Cycle in Colorectal Cancer. <i>Cancer Discovery</i> , 2022, 12, 1462-1481.	9.4	30
76	Systems Biology Methods Applied to Blood and Tissue for a Comprehensive Analysis of Immune Response to Hepatitis B Vaccine in Adults. <i>Frontiers in Immunology</i> , 2020, 11, 580373.	4.8	28
77	Ultrasensitive Detection of Enzymatic Activity Using Single Molecule Arrays. <i>Journal of the American Chemical Society</i> , 2020, 142, 15098-15106.	13.7	27
78	The American lobster genome reveals insights on longevity, neural, and immune adaptations. <i>Science Advances</i> , 2021, 7, .	10.3	27
79	Multiplexed Salivary Protein Profiling for Patients with Respiratory Diseases Using Fiber-Optic Bundles and Fluorescent Antibody-Based Microarrays. <i>Analytical Chemistry</i> , 2013, 85, 9272-9280.	6.5	26
80	Detection of amyloid β oligomers toward early diagnosis of Alzheimer's disease. <i>Analytical Biochemistry</i> , 2019, 566, 40-45.	2.4	25
81	Using Antigen-antibody Binding Kinetic Parameters to Understand Single-Molecule Array Immunoassay Performance. <i>Analytical Chemistry</i> , 2016, 88, 11335-11339.	6.5	23
82	Single-Molecule Mechanistic Study of Enzyme Hysteresis. <i>ACS Central Science</i> , 2019, 5, 1691-1698.	11.3	23
83	Single-molecule measurements in microwells for clinical applications. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2020, 57, 270-290.	6.1	23
84	Bead-based optical fiber arrays for artificial olfaction. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 767-770.	6.1	22
85	Evaluation of Antibody Biotinylation Approaches for Enhanced Sensitivity of Single Molecule Array (Simoa) Immunoassays. <i>Bioconjugate Chemistry</i> , 2018, 29, 3452-3458.	3.6	22
86	Genome-Wide SNP-Genotyping Array to Study the Evolution of the Human Pathogen <i>Vibrio vulnificus</i> Biotype 3. <i>PLoS ONE</i> , 2014, 9, e114576.	2.5	22
87	Single-Molecule Arrays for Ultrasensitive Detection of Host Immune Response to Dengue Virus Infection. <i>Journal of Clinical Microbiology</i> , 2015, 53, 1722-1724.	3.9	21
88	Salivary Diagnostics Using a Portable Point-of-Service Platform: A Review. <i>Clinical Therapeutics</i> , 2015, 37, 498-504.	2.5	21
89	A SARS-CoV-2 Neutralization Assay Using Single Molecule Arrays. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25966-25972.	13.8	21
90	Evaluation of serological lateral flow assays for severe acute respiratory syndrome coronavirus-2. <i>BMC Infectious Diseases</i> , 2021, 21, 580.	2.9	20

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91	Activity of mRNA COVID-19 vaccines in patients with lymphoid malignancies. <i>Blood Advances</i> , 2021, 5, 3062-3065.	5.2	20
92	Personal microbiomes and next-generation sequencing for laboratory-based education. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw266.	1.8	19
93	Correlations of Salivary Biomarkers with Clinical Assessments in Patients with Cystic Fibrosis. <i>PLoS ONE</i> , 2015, 10, e0135237.	2.5	18
94	Ultrasensitive Single-Molecule Enzyme Detection and Analysis Using a Polymer Microarray. <i>Analytical Chemistry</i> , 2018, 90, 3091-3098.	6.5	18
95	Impact of clinical sample handling and processing on ultra-low level measurements of plasma cytokines. <i>Clinical Biochemistry</i> , 2019, 65, 38-44.	1.9	18
96	Hypothermic Ex Situ Perfusion of Human Limbs With Acellular Solution for 24 Hours. <i>Transplantation</i> , 2020, 104, e260-e270.	1.0	18
97	SARS-CoV-2 mRNA Vaccines in Allogeneic Hematopoietic Stem Cell Transplant Recipients: Immunogenicity and Reactogenicity. <i>Clinical Infectious Diseases</i> , 2021, , .	5.8	18
98	Observing Single Enzyme Molecules Interconvert between Activity States upon Heating. <i>PLoS ONE</i> , 2014, 9, e86224.	2.5	17
99	New Views of Old Proteins: Clarifying the Enigmatic Proteome. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100254.	3.8	16
100	Fluorescence monitoring of the microenvironmental pH of highly charged polymers. <i>Journal of Polymer Science Part A</i> , 1997, 35, 2105-2110.	2.3	15
101	Zonulin Antagonist, Larazotide (AT1001), As an Adjuvant Treatment for Multisystem Inflammatory Syndrome in Children: A Case Series. , 2022, 10, e0641.		15
102	Bottom-up single-molecule strategy for understanding subunit function of tetrameric β -galactosidase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8346-8351.	7.1	14
103	Evaluation of Three Commercial and Two Non-Commercial Immunoassays for the Detection of Prior Infection to SARS-CoV-2. <i>Journal of Applied Laboratory Medicine</i> , The, 2021, 6, 1561-1570.	1.3	14
104	Sequential Protein Capture in Multiplex Single Molecule Arrays: A Strategy for Eliminating Assay Cross-Reactivity. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001111.	7.6	13
105	Accumulation mechanism of indigo and indirubin in <i>Polygonum tinctorium</i> revealed by metabolite and transcriptome analysis. <i>Industrial Crops and Products</i> , 2019, 141, 111783.	5.2	11
106	Elucidating the relationship between substrate and inhibitor binding to the active sites of tetrameric β -galactosidase. <i>Chemical Science</i> , 2014, 5, 4467-4473.	7.4	10
107	Stoichiometry of the β -Complementation Reaction of <i>Escherichia coli</i> β -Galactosidase As Revealed through Single-Molecule Studies. <i>Biochemistry</i> , 2015, 54, 1583-1588.	2.5	10
108	Rapid and ultrasensitive detection of botulinum neurotoxin serotype A1 in human serum and urine using single-molecule array method. <i>Forensic Toxicology</i> , 2017, 35, 179-184.	2.4	10

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109	Single Molecule Arrays for ultra-sensitive detection of rat cytokines in serum. <i>Journal of Immunological Methods</i> , 2018, 452, 20-25.	1.4	10
110	A Modular Biomaterial Scaffold-Based Vaccine Elicits Durable Adaptive Immunity to Subunit SARS-CoV-2 Antigens. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101370.	7.6	10
111	Using Next-Generation Sequencing to Explore Genetics and Race in the High School Classroom. <i>CBE Life Sciences Education</i> , 2017, 16, ar22.	2.3	9
112	Fluorescent Excitation Transfer Immunoassay for the Determination of Spinosyn A in Water. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 2766-2770.	5.2	8
113	Synthesis and Biological Testing of Penicillins: An Investigative Approach to the Undergraduate Teaching Laboratory. <i>Journal of Chemical Education</i> , 2010, 87, 634-636.	2.3	8
114	High-Sensitivity Single Molecule Array Assays for Pathological Isoforms in Parkinson's Disease. <i>Clinical Chemistry</i> , 2022, 68, 431-440.	3.2	8
115	Catalytic kinetics of single gold nanoparticles observed via optical microwell arrays. <i>Nanotechnology</i> , 2015, 26, 055704.	2.6	7
116	Development of a Rapid Salivary Proteomic Platform for Oral Feeding Readiness in the Preterm Newborn. <i>Frontiers in Pediatrics</i> , 2017, 5, 268.	1.9	7
117	Single-molecule studies reveal method for tuning the heterogeneous activity of alkaline phosphatase. <i>Biophysical Journal</i> , 2022, 121, 2027-2034.	0.5	6
118	Progress toward the determination of Sr ²⁺ in highly basic solutions using imaging optical fiber sensor arrays. <i>Journal of Materials Chemistry</i> , 2005, 15, 4361.	6.7	5
119	A SARS-CoV-2 Neutralization Assay using Single Molecule Arrays. <i>Angewandte Chemie</i> , 0, , .	2.0	5
120	Clinical testing should be individualized, not based on populations. <i>Journal of Clinical Investigation</i> , 2019, 129, 3472-3473.	8.2	5
121	Single-Molecule Arrays for Ultrasensitive Detection of Blood-Based Biomarkers for Immunotherapy. <i>Methods in Molecular Biology</i> , 2020, 2055, 399-412.	0.9	5
122	Oxygen Sensing Properties of a New Ruthenium (II) Compound. <i>Analytical Letters</i> , 1997, 30, 2289-2299.	1.8	4
123	Multiplexed Fluorescent Microarray for Human Salivary Protein Analysis Using Polymer Microspheres and Fiber-optic Bundles. <i>Journal of Visualized Experiments</i> , 2013, , .	0.3	4
124	Protein Detection by Counting Molecules. <i>Clinical Chemistry</i> , 2019, 65, 809-810.	3.2	4
125	Single-Molecule Enzymology for Diagnostics: Profiling Alkaline Phosphatase Activity in Clinical Samples. <i>ChemBioChem</i> , 2022, 23, .	2.6	4
126	Harmonization of Multiple SARS-CoV-2 Reference Materials Using the WHO IS (NIBSC 20/136): Results and Implications. <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	4

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127	pH-Dependent fluorescence and singlet energy transfer in water-soluble polymers containing eosin and phenol red chromophores. <i>Journal of Fluorescence</i> , 1992, 2, 231-235.	2.5	3
128	The Use of Optical-Imaging Fibers for the Fabrication of Array Sensors. <i>ACS Symposium Series</i> , 1998, , 273-289.	0.5	3
129	Cross-Reactive Optical Sensing Arrays. <i>ACS Symposium Series</i> , 2002, , 318-329.	0.5	3
130	Single-Molecule Analysis Determines Isozymes of Human Alkaline Phosphatase in Serum. <i>Angewandte Chemie</i> , 2020, 132, 18166-18171.	2.0	3
131	Optical Immunosensors Using Controlled-Release Polymers. <i>ACS Symposium Series</i> , 1992, , 310-320.	0.5	2
132	Systematic Approach to Address Early Pandemic's Diagnostic Unmet Needs. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	2
133	Optical Electronic Noses. , 0, , 181-199.		1
134	Randomly-Ordered High-Density Fiber Optic Microsensor Array Sensors. <i>ACS Symposium Series</i> , 2002, , 129-148.	0.5	1
135	Single-Molecule Dwell-Time Analysis of Restriction Endonuclease-Mediated DNA Cleavage. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	1
136	Coronavirus antigens as targets of antibody responses. <i>Clinics in Laboratory Medicine</i> , 2021, 42, 97-109.	1.4	1
137	Fiber-Optic Sensors Based on Degradable Polymers. <i>ACS Symposium Series</i> , 1994, , 21-33.	0.5	0
138	Self-Regenerating Fiber-Optic Sensors. <i>ACS Symposium Series</i> , 1995, , 186-196.	0.5	0
139	Novel Colloidal Assembly Methods for the Preparation of Core-Shell Composite Materials. <i>Materials Research Society Symposia Proceedings</i> , 2000, 636, 9171.	0.1	0
140	Robust error correction in infofuses. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 361-377.	2.1	0