

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	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
2	Single-Molecule Enzymology for Diagnostics: Profiling Alkaline Phosphatase Activity in Clinical Samples. <i>ChemBioChem</i> , 2022, 23, .	2.6	4
3	Donor Clonal Hematopoiesis and Recipient Outcomes After Transplantation. <i>Journal of Clinical Oncology</i> , 2022, 40, 189-201.	1.6	79
4	High-Sensitivity Single Molecule Array Assays for Pathological Isoforms in Parkinson's Disease. <i>Clinical Chemistry</i> , 2022, 68, 431-440.	3.2	8
5	High-Throughput, High-Multiplex Digital Protein Detection with Attomolar Sensitivity. <i>ACS Nano</i> , 2022, 16, 1025-1035.	14.6	51
6	Zonulin Antagonist, Larazotide (AT1001), As an Adjuvant Treatment for Multisystem Inflammatory Syndrome in Children: A Case Series. , 2022, 10, e0641.		15
7	Ectopic Lymphoid Follicle Formation and Human Seasonal Influenza Vaccination Responses Recapitulated in an Organ-on-a-Chip. <i>Advanced Science</i> , 2022, 9, e2103241.	11.2	32
8	Reverse Transcriptase Inhibition Disrupts Repeat Element Life Cycle in Colorectal Cancer. <i>Cancer Discovery</i> , 2022, 12, 1462-1481.	9.4	30
9	Single-molecule studies reveal method for tuning the heterogeneous activity of alkaline phosphatase. <i>Biophysical Journal</i> , 2022, 121, 2027-2034.	0.5	6
10	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
11	New Views of Old Proteins: Clarifying the Enigmatic Proteome. <i>Molecular and Cellular Proteomics</i> , 2022, 21, 100254.	3.8	16
12	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
13	Single-Molecule Dwell-Time Analysis of Restriction Endonuclease-Mediated DNA Cleavage. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	1
14	Ultrasensitive Measurement of Both SARS-CoV-2 RNA and Antibodies from Saliva. <i>Analytical Chemistry</i> , 2021, 93, 5365-5370.	6.5	34
15	The American lobster genome reveals insights on longevity, neural, and immune adaptations. <i>Science Advances</i> , 2021, 7, .	10.3	27
16	L1CAM is not associated with extracellular vesicles in human cerebrospinal fluid or plasma. <i>Nature Methods</i> , 2021, 18, 631-634.	19.0	118
17	Evaluation of serological lateral flow assays for severe acute respiratory syndrome coronavirus-2. <i>BMC Infectious Diseases</i> , 2021, 21, 580.	2.9	20
18	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

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19	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> , 2021, 6, 1561-1570.	1.3	14
20	Activity of mRNA COVID-19 vaccines in patients with lymphoid malignancies. <i>Blood Advances</i> , 2021, 5, 3062-3065.	5.2	20
21	Protective heterologous T cell immunity in COVID-19 induced by the trivalent MMR and Tdap vaccine antigens. <i>Med</i> , 2021, 2, 1050-1071.e7.	4.4	33
22	A SARS-CoV-2 Neutralization Assay Using Single Molecule Arrays. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25966-25972.	13.8	21
23	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
24	Coronavirus antigens as targets of antibody responses. <i>Clinics in Laboratory Medicine</i> , 2021, 42, 97-109.	1.4	1
25	SARS-CoV-2 mRNA Vaccines in Allogeneic Hematopoietic Stem Cell Transplant Recipients: Immunogenicity and Reactogenicity. <i>Clinical Infectious Diseases</i> , 2021, , .	5.8	18
26	Framework for rapid comparison of extracellular vesicle isolation methods. <i>ELife</i> , 2021, 10, .	6.0	51
27	Single-molecule measurements in microwells for clinical applications. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2020, 57, 270-290.	6.1	23
28	Plasma IL-6 changes correlate to PD-1 inhibitor responses in NSCLC. , 2020, 8, e000678.		78
29	Simplified Digital Enzyme-Linked Immunosorbent Assay Using Tyramide Signal Amplification and Fibrin Hydrogels. <i>ACS Sensors</i> , 2020, 5, 3037-3042.	7.8	34
30	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
31	Can mHealth Technology Help Mitigate the Effects of the COVID-19 Pandemic?. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2020, 1, 243-248.	2.3	69
32	Ultrasensitive Detection of Enzymatic Activity Using Single Molecule Arrays. <i>Journal of the American Chemical Society</i> , 2020, 142, 15098-15106.	13.7	27
33	Ultrasensitive high-resolution profiling of early seroconversion in patients with COVID-19. <i>Nature Biomedical Engineering</i> , 2020, 4, 1180-1187.	22.5	110
34	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
35	Hypothermic Ex Situ Perfusion of Human Limbs With Acellular Solution for 24 Hours. <i>Transplantation</i> , 2020, 104, e260-e270.	1.0	18
36	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

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37	Single-Molecule Analysis Determines Isozymes of Human Alkaline Phosphatase in Serum. <i>Angewandte Chemie</i> , 2020, 132, 18166-18171.	2.0	3
38	Single-Molecule Analysis Determines Isozymes of Human Alkaline Phosphatase in Serum. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18010-18015.	13.8	36
39	Simultaneous detection of small molecules, proteins and microRNAs using single molecule arrays. <i>Chemical Science</i> , 2020, 11, 7896-7903.	7.4	45
40	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
41	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
42	Highly Sensitive and Multiplexed Protein Measurements. <i>Chemical Reviews</i> , 2019, 119, 293-321.	47.7	187
43	A rapid triage test for active pulmonary tuberculosis in adult patients with persistent cough. <i>Science Translational Medicine</i> , 2019, 11, .	12.4	44
44	Single-Molecule Mechanistic Study of Enzyme Hysteresis. <i>ACS Central Science</i> , 2019, 5, 1691-1698.	11.3	23
45	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
46	Protein Detection by Counting Molecules. <i>Clinical Chemistry</i> , 2019, 65, 809-810.	3.2	4
47	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
48	Detection of amyloid β oligomers toward early diagnosis of Alzheimer's disease. <i>Analytical Biochemistry</i> , 2019, 566, 40-45.	2.4	25
49	Clinical testing should be individualized, not based on populations. <i>Journal of Clinical Investigation</i> , 2019, 129, 3472-3473.	8.2	5
50	How many human proteoforms are there?. <i>Nature Chemical Biology</i> , 2018, 14, 206-214.	8.0	580
51	Ultrasensitive Single-Molecule Enzyme Detection and Analysis Using a Polymer Microarray. <i>Analytical Chemistry</i> , 2018, 90, 3091-3098.	6.5	18
52	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
53	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
54	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

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55	Bottom-up single-molecule strategy for understanding subunit function of tetrameric β -galactosidase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8346-8351.	7.1	14
56	Finding useful biomarkers for Parkinson's disease. Science Translational Medicine, 2018, 10, .	12.4	125
57	Single-Molecule Arrays for Protein and Nucleic Acid Analysis. Annual Review of Analytical Chemistry, 2017, 10, 345-363.	5.4	101
58	Long-Term Measurements of Human Inflammatory Cytokines Reveal Complex Baseline Variations between Individuals. American Journal of Pathology, 2017, 187, 2620-2626.	3.8	34
59	Using Next-Generation Sequencing to Explore Genetics and Race in the High School Classroom. CBE Life Sciences Education, 2017, 16, ar22.	2.3	9
60	Digital direct detection of microRNAs using single molecule arrays. Nucleic Acids Research, 2017, 45, e137-e137.	14.5	91
61	Parkinson's disease biomarkers: perspective from the NINDS Parkinson's Disease Biomarkers Program. Biomarkers in Medicine, 2017, 11, 451-473.	1.4	49
62	Rapid and ultrasensitive detection of botulinum neurotoxin serotype A1 in human serum and urine using single-molecule array method. Forensic Toxicology, 2017, 35, 179-184.	2.4	10
63	Development of a Rapid Salivary Proteomic Platform for Oral Feeding Readiness in the Preterm Newborn. Frontiers in Pediatrics, 2017, 5, 268.	1.9	7
64	Incorporation of Slow Off-Rate Modified Aptamers Reagents in Single Molecule Array Assays for Cytokine Detection with Ultrahigh Sensitivity. Analytical Chemistry, 2016, 88, 8385-8389.	6.5	31
65	Personal microbiomes and next-generation sequencing for laboratory-based education. FEMS Microbiology Letters, 2016, 363, fnw266.	1.8	19
66	Using Antigen-antibody Binding Kinetic Parameters to Understand Single-Molecule Array Immunoassay Performance. Analytical Chemistry, 2016, 88, 11335-11339.	6.5	23
67	Protein Counting in Single Cancer Cells. Analytical Chemistry, 2016, 88, 2952-2957.	6.5	37
68	Correlations of Salivary Biomarkers with Clinical Assessments in Patients with Cystic Fibrosis. PLoS ONE, 2015, 10, e0135237.	2.5	18
69	Fiber-optic array using molecularly imprinted microspheres for antibiotic analysis. Chemical Science, 2015, 6, 3139-3147.	7.4	44
70	Ultrasensitive Detection of Ricin Toxin in Multiple Sample Matrixes Using Single-Domain Antibodies. Analytical Chemistry, 2015, 87, 6570-6577.	6.5	45
71	Stoichiometry of the β -Complementation Reaction of Escherichia coli β -Galactosidase As Revealed through Single-Molecule Studies. Biochemistry, 2015, 54, 1583-1588.	2.5	10
72	Catalytic kinetics of single gold nanoparticles observed via optical microwell arrays. Nanotechnology, 2015, 26, 055704.	2.6	7

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73	Ultra-sensitive protein detection via Single Molecule Arrays towards early stage cancer monitoring. <i>Scientific Reports</i> , 2015, 5, 11034.	3.3	43
74	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
75	Salivary Diagnostics Using a Portable Point-of-Service Platform: A Review. <i>Clinical Therapeutics</i> , 2015, 37, 498-504.	2.5	21
76	Single molecule array (Simoa) assay with optimal antibody pairs for cytokine detection in human serum samples. <i>Analyst</i> , 2015, 140, 6277-6282.	3.5	69
77	Observing Single Enzyme Molecules Interconvert between Activity States upon Heating. <i>PLoS ONE</i> , 2014, 9, e86224.	2.5	17
78	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
79	An automated integrated platform for rapid and sensitive multiplexed protein profiling using human saliva samples. <i>Lab on A Chip</i> , 2014, 14, 1087.	6.0	54
80	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
81	Protein measurements in microwells. <i>Lab on A Chip</i> , 2014, 14, 3195-3200.	6.0	31
82	Disease Detection by Ultrasensitive Quantification of Microdosed Synthetic Urinary Biomarkers. <i>Journal of the American Chemical Society</i> , 2014, 136, 13709-13714.	13.7	50
83	Salivary Inflammatory Mediator Profiling and Correlation to Clinical Disease Markers in Asthma. <i>PLoS ONE</i> , 2014, 9, e84449.	2.5	35
84	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
85	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
86	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
87	Optical Methods for Single Molecule Detection and Analysis. <i>Analytical Chemistry</i> , 2013, 85, 1258-1263.	6.5	185
88	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
89	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
90	Oil-sealed femtoliter fiber-optic arrays for single molecule analysis. <i>Lab on A Chip</i> , 2012, 12, 2229.	6.0	41

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91	Lessons learned from the introduction of personalized genotyping into a medical school curriculum. <i>Genetics in Medicine</i> , 2011, 13, 63-66.	2.4	54
92	Analytical Chemistry on the Femtoliter Scale. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3880-3895.	13.8	72
93	Bead-based optical fiber arrays for artificial olfaction. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 767-770.	6.1	22
94	Single-molecule enzyme-linked immunosorbent assay detects serum proteins at subfemtomolar concentrations. <i>Nature Biotechnology</i> , 2010, 28, 595-599.	17.5	1,557
95	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
96	Fibre optic microarrays. <i>Chemical Society Reviews</i> , 2010, 39, 38-50.	38.1	97
97	CMOS Microelectrode Array for Electrochemical Lab-on-a-Chip Applications. <i>IEEE Sensors Journal</i> , 2009, 9, 609-615.	4.7	58
98	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
99	Ubiquitous Sensors: When Will They Be Here?. <i>ACS Nano</i> , 2009, 3, 2876-2880.	14.6	32
100	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
101	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
102	Detection of Single-Molecule DNA Hybridization Using Enzymatic Amplification in an Array of Femtoliter-Sized Reaction Vessels. <i>Journal of the American Chemical Society</i> , 2008, 130, 12622-12623.	13.7	67
103	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
104	Optical fiber bundles. <i>FEBS Journal</i> , 2007, 274, 5462-5470.	4.7	44
105	Microsensor Arrays for Saliva Diagnostics. <i>Annals of the New York Academy of Sciences</i> , 2007, 1098, 389-400.	3.8	39
106	Digital Concentration Readout of Single Enzyme Molecules Using Femtoliter Arrays and Poisson Statistics. <i>Nano Letters</i> , 2006, 6, 520-523.	9.1	177
107	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
108	Duplexed sandwich immunoassays on a fiber-optic microarray. <i>Analytica Chimica Acta</i> , 2006, 564, 34-39.	5.4	41

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109	Synthesis of gold-poly(methyl methacrylate) core-shell nanoparticles by surface-confined atom transfer radical polymerization at elevated temperature. <i>Journal of Polymer Science Part A</i> , 2005, 43, 3631-3642.	2.3	55
110	CHEMISTRY: Miniature Analytical Methods for Medical Diagnostics. <i>Science</i> , 2005, 308, 217-219.	12.6	114
111	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
112	An imaging fiber-based optical tweezer array for microparticle array assembly. <i>Applied Physics Letters</i> , 2004, 84, 4289-4291.	3.3	53
113	Cross-Reactive Optical Sensing Arrays. <i>ACS Symposium Series</i> , 2002, , 318-329.	0.5	3
114	Imaging optical sensor arrays. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 689-695.	6.1	46
115	Randomly-Ordered High-Density Fiber Optic Microsensor Array Sensors. <i>ACS Symposium Series</i> , 2002, , 129-148.	0.5	1
116	Nanosphere~Microsphere Assembly:~Methods for Core~Shell Materials Preparation. <i>Chemistry of Materials</i> , 2001, 13, 2210-2216.	6.7	232
117	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
118	Screening unlabeled DNA targets with randomly ordered fiber-optic gene arrays. <i>Nature Biotechnology</i> , 2000, 18, 91-94.	17.5	273
119	A Combinatorial Approach To Discover New Chelators for Optical Metal Ion Sensing. <i>Analytical Chemistry</i> , 2000, 72, 5250-5257.	6.5	65
120	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
121	An Autonomous Sensor and Telemetry System for Low-Level pCO ₂ Measurements in Seawater. <i>Analytical Chemistry</i> , 1999, 71, 154-161.	6.5	45
122	Convergent, Self-Encoded Bead Sensor Arrays in the Design of an Artificial Nose. <i>Analytical Chemistry</i> , 1999, 71, 2192-2198.	6.5	179
123	An olfactory neuronal network for vapor recognition in an artificial nose. <i>Biological Cybernetics</i> , 1998, 78, 245-251.	1.3	58
124	Randomly Ordered Addressable High-Density Optical Sensor Arrays. <i>Analytical Chemistry</i> , 1998, 70, 1242-1248.	6.5	318
125	The Use of Optical-Imaging Fibers for the Fabrication of Array Sensors. <i>ACS Symposium Series</i> , 1998, , 273-289.	0.5	3
126	Toward a near-field optical array. <i>Review of Scientific Instruments</i> , 1997, 68, 1357-1359.	1.3	43

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127	Oxygen Sensing Properties of a New Ruthenium (II) Compound. <i>Analytical Letters</i> , 1997, 30, 2289-2299.	1.8	4
128	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
129	Ordered Nanowell Arrays. <i>Chemistry of Materials</i> , 1996, 8, 2832-2835.	6.7	146
130	A chemical-detecting system based on a cross-reactive optical sensor array. <i>Nature</i> , 1996, 382, 697-700.	27.8	406
131	A Fiber-Optic Carbon Dioxide Sensor for Fermentation Monitoring. <i>Nature Biotechnology</i> , 1995, 13, 597-601.	17.5	44
132	Self-Regenerating Fiber-Optic Sensors. <i>ACS Symposium Series</i> , 1995, , 186-196.	0.5	0
133	Fiber-Optic Sensors Based on Degradable Polymers. <i>ACS Symposium Series</i> , 1994, , 21-33.	0.5	0
134	Fiber-optic Sensor for Continuous Monitoring of Fermentation pH. <i>Nature Biotechnology</i> , 1993, 11, 726-729.	17.5	30
135	Optical Immunosensors Using Controlled- Release Polymers. <i>ACS Symposium Series</i> , 1992, , 310-320.	0.5	2
136	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
137	A fibre-optic chemical sensor with discrete sensing sites. <i>Nature</i> , 1991, 353, 338-340.	27.8	98
138	Optical Electronic Noses. , 0, , 181-199.		1
139	A SARSâ€CoVâ€2 Neutralization Assay using Single Molecule Arrays. <i>Angewandte Chemie</i> , 0, , .	2.0	5
140	Systematic Approach to Address Early Pandemic's Diagnostic Unmet Needs. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	2