

# Antonio J Ricco

## List of Publications by Citations

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144  
papers

8,036  
citations

43  
h-index

87  
g-index

164  
ext. papers

8,892  
ext. citations

6.2  
avg, IF

5.62  
L-index

#	Paper	IF	Citations
144	Resistance of polyaniline films as a function of electrochemical potential and the fabrication of polyaniline-based microelectronic devices. <i>The Journal of Physical Chemistry</i> , <b>1985</b> , 89, 1441-1447		870
143	Point of care diagnostics: status and future. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 487-515	7.8	804
142	Detection of water in the LCROSS ejecta plume. <i>Science</i> , <b>2010</b> , 330, 463-8	33.3	478
141	Effect of surface roughness on the response of thickness-shear mode resonators in liquids. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 2910-2922	7.8	289
140	Stand-alone self-powered integrated microfluidic blood analysis system (SIMBAS). <i>Lab on A Chip</i> , <b>2011</b> , 11, 845-50	7.2	260
139	New Organic Materials Suitable for Use in Chemical Sensor Arrays. <i>Accounts of Chemical Research</i> , <b>1998</b> , 31, 219-227	24.3	243
138	Cubesats: Cost-effective science and technology platforms for emerging and developing nations. <i>Advances in Space Research</i> , <b>2011</b> , 47, 663-684	2.4	218
137	Surface acoustic wave gas sensor based on film conductivity changes. <i>Sensors and Actuators</i> , <b>1985</b> , 8, 319-333		204
136	Characterization of SH acoustic plate mode liquid sensors. <i>Sensors and Actuators</i> , <b>1989</b> , 20, 253-268		202
135	Structural Distortion of Dendrimers on Gold Surfaces: A Tapping-Mode AFM Investigation. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 5323-5324	16.4	184
134	Acoustic wave viscosity sensor. <i>Applied Physics Letters</i> , <b>1987</b> , 50, 1474-1476	3.4	164
133	Integrating polymerase chain reaction, valving, and electrophoresis in a plastic device for bacterial detection. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4591-8	7.8	163
132	A selective SAW-based organophosphonate chemical sensor employing a self-assembled, composite monolayer: a new paradigm for sensor design. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 3191-3193	7.8	140
131	Synthesis and characterization of a new surface derivatizing reagent to promote the adhesion of polypyrrole films to N-type silicon photoanodes: N-(3-(trimethoxysilyl)propyl)pyrrole. <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 2031-2034	16.4	129
130	Integrated microfluidic tmRNA purification and real-time NASBA device for molecular diagnostics. <i>Lab on A Chip</i> , <b>2008</b> , 8, 2071-8	7.2	125
129	Three-dimensional wax patterning of paper fluidic devices. <i>Langmuir</i> , <b>2014</b> , 30, 7030-6	4	120
128	Real-time measurements of the gas-phase adsorption of n-alkylthiol mono- and multilayers on gold. <i>Langmuir</i> , <b>1991</b> , 7, 620-622	4	116

127	Surface Acoustic Wave Chemical Sensor Arrays: New Chemically Sensitive Interfaces Combined with Novel Cluster Analysis To Detect Volatile Organic Compounds and Mixtures. <i>Accounts of Chemical Research</i> , <b>1998</b> , 31, 289-296	24.3	114
126	Plastic advances microfluidic devices. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 78A-86A	7.8	111
125	Chemical microsensors. <i>Science</i> , <b>1991</b> , 254, 74-80	33.3	104
124	Molecular interactions between organized, surface-confined monolayers and vapor-phase probe molecules. 5. Acid-base interactions. <i>Langmuir</i> , <b>1993</b> , 9, 1775-1780	4	94
123	Molecular Interactions between Organized, Surface-Confined Monolayers and Vapor-Phase Probe Molecules. 8. Reactions between Acid-Terminated Self-Assembled Monolayers and Vapor-Phase Bases. <i>Langmuir</i> , <b>1996</b> , 12, 726-735	4	87
122	X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlation of photoelectrochemical and capacitance-potential behavior with surface chemical composition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces, and Films</i> , <b>1991</b> , 9, 2419-2425	2.9	86
121	Use of linear solvation energy relationships for modeling responses from polymer-coated acoustic-wave vapor sensors. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 3458-66	7.8	82
120	Electrochemical characterization of p-type semiconducting tungsten disulfide photocathodes: efficient photoreduction processes at semiconductor/liquid electrolyte interfaces. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 2246-2256	16.4	80
119	Interactions between Organized, Surface-Confined Monolayers and Vapor-Phase Probe Molecules. 9. Structure/Reactivity Relationship between Three Surface-Confined Isomers of Mercaptobenzoic Acid and Vapor-Phase Decylamine. <i>Langmuir</i> , <b>1996</b> , 12, 1989-1996	4	79
118	Acoustoelectric interaction of plate modes with solutions. <i>Journal of Applied Physics</i> , <b>1988</b> , 64, 5002-5008	8.5	78
117	Optically addressable single-use microfluidic valves by laser printer lithography. <i>Lab on A Chip</i> , <b>2010</b> , 10, 2680-7	7.2	77
116	Characterization of n-Type Semiconducting Tungsten Disulfide Photoanodes in Aqueous and Nonaqueous Electrolyte Solutions. <i>Journal of the Electrochemical Society</i> , <b>1982</b> , 129, 1461	3.9	75
115	Miniaturized capillary isoelectric focusing in plastic microfluidic devices. <i>Electrophoresis</i> , <b>2002</b> , 23, 3638-3645	3.5	73
114	Molecular interactions between organized, surface-confined monolayers and vapor-phase probe molecules. 6. In-situ FT-IR external reflectance spectroscopy of monolayer adsorption and reaction chemistry. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 2102-2107	7.8	71
113	Conferring selectivity to chemical sensors via polymer side-chain selection: thermodynamics of vapor sorption by a set of polysiloxanes on thickness-shear mode resonators. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 3696-708	7.8	70
112	Thin metal film characterization and chemical sensors: monitoring electronic conductivity, mass loading and mechanical properties with surface acoustic wave devices. <i>Thin Solid Films</i> , <b>1991</b> , 206, 94-101	2.2	70
111	Microfluidic impedance cytometer for platelet analysis. <i>Lab on A Chip</i> , <b>2013</b> , 13, 722-9	7.2	64
110	Differentiation of chemical components in a binary solvent vapor mixture using carbon/polymer composite-based chemiresistors. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 1532-42	7.8	61

109	Effective use of molecular recognition in gas sensing: results from acoustic wave and in situ FT-IR measurements. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 3022-35	7.8	57
108	SAW Sensors for the Room-Temperature Measurement of CO2 and Relative Humidity. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 2137-2145	7.8	56
107	Determination of BET surface areas of porous thin films using surface acoustic wave devices. <i>Langmuir</i> , <b>1989</b> , 5, 273-276	4	54
106	Real-time analysis of chemical reactions occurring at a surface-confined organic monolayer. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 8550-8552	16.4	48
105	Application of the Solubility Parameter Concept to the Design of Chemiresistor Arrays. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 3907-3913	3.9	47
104	Interactions between self-assembled monolayers and an organophosphonate Detailed study using surface acoustic wave-based mass analysis, polarization modulation-FTIR spectroscopy and ellipsometry. <i>Faraday Discussions</i> , <b>1997</b> , 107, 285-305	3.6	46
103	Ultrahigh vacuum studies of Pd metal-insulator-semiconductor diode H2 sensors. <i>Journal of Applied Physics</i> , <b>1987</b> , 62, 1084-1092	2.5	46
102	Optical scanner for immunoassays with up-converting phosphorescent labels. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2008</b> , 55, 1560-71	5	44
101	Earth as a Tool for Astrobiology: A European Perspective. <i>Space Science Reviews</i> , <b>2017</b> , 209, 43-81	7.5	43
100	Miniature radiation dosimeter for in vivo radiation measurements. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>1988</b> , 14, 963-7	4	43
99	The O/OREOS mission: first science data from the Space Environment Survivability of Living Organisms (SESLO) payload. <i>Astrobiology</i> , <b>2011</b> , 11, 951-8	3.7	42
98	Single-step separation of platelets from whole blood coupled with digital quantification by interfacial platelet cytometry (iPC). <i>Langmuir</i> , <b>2010</b> , 26, 14700-6	4	40
97	Chemically Sensitive Surface Acoustic Wave Devices Employing a Self-Assembled Composite Monolayer Film: Molecular Specificity and Effects Due to Self-Assembled Monolayer Adsorption Time and Gold Surface Morphology. <i>Langmuir</i> , <b>1996</b> , 12, 2239-2246	4	40
96	Space as a Tool for Astrobiology: Review and Recommendations for Experimentations in Earth Orbit and Beyond. <i>Space Science Reviews</i> , <b>2017</b> , 209, 83-181	7.5	39
95	Visual-Empirical Region-of-Influence Pattern Recognition Applied to Chemical Microsensor Array Selection and Chemical Analysis. <i>Accounts of Chemical Research</i> , <b>1998</b> , 31, 297-305	24.3	38
94	Evolving point-of-care diagnostics using up-converting phosphor bioanalytical systems. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 3216-21	7.8	37
93	Synthetic spectra: a tool for correlation spectroscopy. <i>Applied Optics</i> , <b>1997</b> , 36, 3342-8	1.7	36
92	Age-related changes in platelet function are more profound in women than in men. <i>Scientific Reports</i> , <b>2015</b> , 5, 12235	4.9	35

91	Microfluidic device to study arterial shear-mediated platelet-surface interactions in whole blood: reduced sample volumes and well-characterised protein surfaces. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 987-1000	3.7	35
90	Characterization of p-type cadmium telluride electrodes in acetonitrile/electrolyte solutions. Nearly ideal behavior from reductive surface pretreatments. <i>The Journal of Physical Chemistry</i> , <b>1983</b> , 87, 5140-5150		35
89	Hg adsorption on optically thin Au films. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 4320-4326	2.5	33
88	The Mars oxidant experiment (MOx) for Mars 96. <i>Planetary and Space Science</i> , <b>1998</b> , 46, 769-77	2	30
87	The O/OREOS mission: Astrobiology in low Earth orbit. <i>Acta Astronautica</i> , <b>2014</b> , 93, 501-508	2.9	28
86	Microfluidic sedimentation cytometer for milk quality and bovine mastitis monitoring. <i>Biomedical Microdevices</i> , <b>2010</b> , 12, 1051-9	3.7	28
85	Synthetic infrared spectra. <i>Optics Letters</i> , <b>1997</b> , 22, 1036-8	3	25
84	Multiple-frequency SAW devices for chemical sensing and materials characterization. <i>Sensors and Actuators B: Chemical</i> , <b>1993</b> , 10, 123-131	8.5	25
83	Integrated system investigating shear-mediated platelet interactions with von Willebrand factor using microliters of whole blood. <i>Analytical Biochemistry</i> , <b>2010</b> , 405, 174-83	3.1	24
82	Kinetics of Hydrogen Adsorption and Absorption: Catalytic Gate MIS Gas Sensors on Silicon. <i>Journal of the Electrochemical Society</i> , <b>1989</b> , 136, 2653-2661	3.9	24
81	Improvement of the photoelectrochemical oxidation of halides by platinization of metal dichalcogenide photoanodes. <i>The Journal of Physical Chemistry</i> , <b>1983</b> , 87, 4446-4453		24
80	Liquid recirculation in microfluidic channels by the interplay of capillary and centrifugal forces. <i>Microfluidics and Nanofluidics</i> , <b>2010</b> , 9, 695-703	2.8	23
79	Three-Dimensional Analysis of Particle Distribution on Filter Layers inside N95 Respirators by Deep Learning. <i>Nano Letters</i> , <b>2021</b> , 21, 651-657	11.5	23
78	Pore structure characterization of porous films. <i>Langmuir</i> , <b>1989</b> , 5, 459-466	4	22
77	Study of charge transfer in back-bonding to carbonyl and nitrosyl groups. <i>Inorganic Chemistry</i> , <b>1980</b> , 19, 1931-1936	5.1	22
76	Blood group alters platelet binding kinetics to von Willebrand factor and consequently platelet function. <i>Blood</i> , <b>2019</b> , 133, 1371-1377	2.2	22
75	The O/OREOS mission: first science data from the space environment viability of organics (SEVO) payload. <i>Astrobiology</i> , <b>2012</b> , 12, 841-53	3.7	21
74	Chemisorption-induced reflectivity changes in optically thin silver films. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 1471-1473	3.4	21

73	Microgravity validation of a novel system for RNA isolation and multiplex quantitative real time PCR analysis of gene expression on the International Space Station. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183480	3.7	20
72	Shear-mediated platelet adhesion analysis in less than 100 $\mu$ l of blood: toward a POC platelet diagnostic. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 826-30	5	19
71	Application of disposable plastic microfluidic device arrays with customized chemistries to multiplexed biochemical assays. <i>Biochemical Society Transactions</i> , <b>2002</b> , 30, 73-78	5.1	19
70	Electrode-confined catalyst systems for use in optical-to-chemical energy conversion. <i>Journal of Photochemistry and Photobiology</i> , <b>1985</b> , 29, 71-88		19
69	Use of floating electrodes in transient isotachopheresis to increase the sensitivity of detection. <i>Lab on A Chip</i> , <b>2003</b> , 3, 86-92	7.2	18
68	Patterned Adhesion of Electrolessly Deposited Copper on Poly(tetrafluoroethylene). <i>Journal of the Electrochemical Society</i> , <b>1993</b> , 140, 1763-1768	3.9	18
67	Identification and quantification of aqueous aromatic hydrocarbons using SH-surface acoustic wave sensors. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 1794-9	7.8	17
66	Self-Powered Microfluidic Device for Rapid Assay of Antiplatelet Drugs. <i>Langmuir</i> , <b>2016</b> , 32, 2820-8	4	17
65	SAW Chemical Sensors: An Expanding Role with Global Impact. <i>Electrochemical Society Interface</i> , <b>1994</b> , 3, 38-44	3.6	16
64	EcAMSat spaceflight measurements of the role of $\beta$ antibiotic resistance of stationary phase <i>Escherichia coli</i> in microgravity. <i>Life Sciences in Space Research</i> , <b>2020</b> , 24, 18-24	2.4	16
63	Payload hardware and experimental protocol development to enable future testing of the effect of space microgravity on the resistance to gentamicin of uropathogenic <i>Escherichia coli</i> and its $\beta$ deficient mutant. <i>Life Sciences in Space Research</i> , <b>2017</b> , 15, 1-10	2.4	15
62	Individual platelet adhesion assay: measuring platelet function and antiplatelet therapies in whole blood via digital quantification of cell adhesion. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 6497-504	7.8	15
61	An autonomous lab on a chip for space flight calibration of gravity-induced transcellular calcium polarization in single-cell fern spores. <i>Lab on A Chip</i> , <b>2017</b> , 17, 1095-1103	7.2	14
60	Dynamic platelet function on von Willebrand factor is different in preterm neonates and full-term neonates: changes in neonatal platelet function. <i>Journal of Thrombosis and Haemostasis</i> , <b>2016</b> , 14, 2027-2035	15.4	14
59	Detection and Quantification of Aromatic Hydrocarbon Compounds in Water Using SH-SAW Sensors and Estimation-Theory-Based Signal Processing. <i>ACS Sensors</i> , <b>2016</b> , 1, 63-72	9.2	14
58	Photolithographic metallization of fluorinated polymers. <i>Thin Solid Films</i> , <b>1995</b> , 262, 73-83	2.2	14
57	Characterization of intrinsic amorphous hydrogenated silicon as a thin-film photocathode material. Efficient photoreduction processes in aqueous solution. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 4212-4219	16.4	14
56	Examining platelet adhesion via Stokes flow simulations and microfluidic experiments. <i>Soft Matter</i> , <b>2015</b> , 11, 355-67	3.6	13

55	The development of the Space Environment Viability of Organics (SEVO) experiment aboard the Organism/Organic Exposure to Orbital Stresses (O/OREOS) satellite. <i>Planetary and Space Science</i> , <b>2012</b> , 60, 121-130	2	13
54	Mars atmospheric oxidant sensor (MAOS): an in-situ heterogeneous chemistry analysis. <i>Planetary and Space Science</i> , <b>2003</b> , 51, 167-175	2	12
53	Assaying the efficacy of dual-antiplatelet therapy: use of a controlled-shear-rate microfluidic device with a well-defined collagen surface to track dynamic platelet adhesion. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 4823-34	4.4	11
52	Reactive deposition of nano-films in deep polymeric microcavities. <i>Lab on A Chip</i> , <b>2012</b> , 12, 4877-83	7.2	11
51	Single-monolayer insitu modulus measurements using a SAW device Photocrosslinking of a diacetylenic thiol-based monolayer. <i>Faraday Discussions</i> , <b>1997</b> , 107, 247-258	3.6	11
50	. <i>IEEE Aerospace and Electronic Systems Magazine</i> , <b>2020</b> , 35, 6-18	2.4	10
49	SEVO ON THE GROUND: DESIGN OF A LABORATORY SOLAR SIMULATION IN SUPPORT OF THE O/OREOS MISSION. <i>Astrophysical Journal, Supplement Series</i> , <b>2014</b> , 210, 15	8	10
48	Reflectance Infrared Spectroscopy on Operating Surface Acoustic Wave Chemical Sensors during Exposure to Gas-Phase Analytes. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 3615-3621	7.8	10
47	Organics Exposure in Orbit (OREOcube): A next-generation space exposure platform. <i>Langmuir</i> , <b>2014</b> , 30, 13217-27	4	9
46	The Organism/Organic Exposure to Orbital Stresses (O/OREOS) satellite: radiation exposure in low-earth orbit and supporting laboratory studies of iron tetraphenylporphyrin chloride. <i>Astrobiology</i> , <b>2014</b> , 14, 87-101	3.7	9
45	Effective hydrodynamic shaping of sample streams in a microfluidic parallel-plate flow-assay device: matching whole blood dynamic viscosity. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 374-82	5	9
44	Analysis of binary mixtures of aqueous aromatic hydrocarbons with low-phase-noise shear-horizontal surface acoustic wave sensors using multielectrode transducer designs. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11464-71	7.8	9
43	The ORGANIC experiment on EXPOSE-R on the ISS: Flight sample preparation and ground control spectroscopy. <i>Advances in Space Research</i> , <b>2011</b> , 48, 1980-1996	2.4	9
42	Nanosatellites for Biology in Space: In Situ Measurement of Spore Germination and Growth after 6 Months in Low Earth Orbit on the Mission. <i>Life</i> , <b>2019</b> , 10,	3	9
41	Autonomous Genetic Analysis System to Study Space Effects on Microorganisms: Results from Orbit <b>2007</b> ,		8
40	Investigation of Polymer-Plasticizer Blends as SH-SAW Sensor Coatings for Detection of Benzene in Water with High Sensitivity and Long-Term Stability. <i>ACS Sensors</i> , <b>2017</b> , 2, 157-164	9.2	7
39	InVitro Measurement and Modeling of Platelet Adhesion on VWF-Coated Surfaces in Channel Flow. <i>Biophysical Journal</i> , <b>2019</b> , 116, 1136-1151	2.9	7
38	Platelet behaviour on von Willebrand Factor changes in pregnancy: Consequences of haemodilution and intrinsic changes in platelet function. <i>Scientific Reports</i> , <b>2017</b> , 7, 6354	4.9	7



37	Design of SH-surface acoustic wave sensors for detection of ppb concentrations of BTEX in water <b>2013</b> ,		7
36	PharmaSat: drug dose response in microgravity from a free-flying integrated biofluidic/optical culture-and-analysis satellite <b>2011</b> ,		7
35	Influence of ambient parameters on the response of polymer-coated SH-surface acoustic wave sensors to aromatic analytes in liquid-phase detection <b>2011</b> ,		7
34	Plastic microfluidic devices: Electrokinetic manipulations, life science applications, and production technologies <b>2003</b> , 83-112		7
33	Fabrication and characterisation of spin coated oxidised PMMA to provide a robust surface for on-chip assays. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 135-143	7.3	6
32	Online Chemical Sensor Signal Processing Using Estimation Theory: Quantification of Binary Mixtures of Organic Compounds in the Presence of Linear Baseline Drift and Outliers. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 750-761	4	6
31	First results of the ORGANIC experiment on EXPOSE-R on the ISS. <i>International Journal of Astrobiology</i> , <b>2015</b> , 14, 55-66	1.4	6
30	Low-Cost Microfluidic Single-Use Valves and On-Board Reagent Storage using Laser-Printer Technology <b>2009</b> ,		6
29	Speciation of linear and branched hydrocarbons by a fluorinated polyimide film based surface acoustic wave sensor. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 8672-8673	16.4	6
28	Computational Tracking of Shear-Mediated Platelet Interactions with von Willebrand Factor. <i>Cardiovascular Engineering and Technology</i> , <b>2016</b> , 7, 389-405	2.2	5
27	Biological system development for GraviSat: A new platform for studying photosynthesis and microalgae in space. <i>Life Sciences in Space Research</i> , <b>2014</b> , 3, 63-75	2.4	5
26	Chemically Sensitive Interfaces on Surface Acoustic Wave Devices. <i>ACS Symposium Series</i> , <b>1994</b> , 264-279	0.4	5
25	The EcAMSat fluidic system to study antibiotic resistance in low earth orbit: Development and lessons learned from space flight. <i>Acta Astronautica</i> , <b>2020</b> , 173, 449-459	2.9	4
24	Characteristics of acoustic plate modes on rotated Y-cuts of quartz utilized for biosensing applications. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 5064-8	7.8	4
23	Sol-Gel Coatings on Acoustic Wave Devices: Thin Film Characterization and Chemical Sensor Development. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 180, 583		4
22	Carbon nanotube thermoelectric devices by direct printing: Toward wearable energy converters. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 173901	3.4	4
21	Dynamic platelet function is markedly different in patients with cancer compared to healthy donors. <i>Platelets</i> , <b>2019</b> , 30, 737-742	3.6	4
20	Obtaining Chemical Selectivity from a Single, Nonselective Sensing Film: Two-Stage Adaptive Estimation Scheme with Multiparameter Measurement to Quantify Mixture Components and Interferents. <i>ACS Sensors</i> , <b>2018</b> , 3, 1656-1665	9.2	4



19	Click chemistry as an immobilization method to improve oligonucleotide hybridization efficiency for nucleic acid assays. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 236, 286-293	8.5	3
18	Electrothermal modeling of a microbridge gas sensor <b>1997</b> , 3224, 360		3
17	Biosensing <b>2006</b> ,		3
16	Plastic Microfluidic Devices for DNA and Protein Analyses <b>2006</b> , 311-328		3
15	Detection of volatile organics using a surface acoustic-wave array system <b>1999</b> , 3857, 146		3
14	Fiber optic micromirror studies of the interaction of thin copper films with an organophosphonate. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 1851-1854	7.8	3
13	5.4.2 Quantification of Benzene in Groundwater Using SH-Surface Acoustic Wave Sensors <b>2012</b> ,		3
12	Electrochemistry for Life Detection on Ocean Worlds. <i>ChemElectroChem</i> , <b>2020</b> , 7, 614-623	4.3	3
11	<b>2014</b> ,		2
10	Microfabricated Biosensing Devices: MEMS, Microfluidics, and Mass Sensors <b>2006</b> , 79-106		2
9	Quantitative Detection of Complex Mixtures using a Single Chemical Sensor: Analysis of Response Transients using Multi-Stage Estimation. <i>ACS Sensors</i> , <b>2019</b> , 4, 1682-1690	9.2	1
8	Sensor-based estimation of BTEX concentrations in water samples using recursive least squares and Kalman filter techniques <b>2016</b> ,		1
7	Multi-analyte biochip (MAB) based on all-solid-state ion-selective electrodes (ASSISE) for physiological research. <i>Journal of Visualized Experiments</i> , <b>2013</b> ,	1.6	1
6	Response to Comments on "EcAMSat spaceflight measurements of the role of $\beta$ antibiotic resistance of stationary phase Escherichia coli in microgravity". <i>Life Sciences in Space Research</i> , <b>2021</b> , 29, 85-86	2.4	1
5	CubeSats for microbiology and astrobiology research <b>2021</b> , 147-162		0
4	Synthetic infrared spectra for correlation spectroscopy <b>1997</b> , 3118, 350		
3	Plastic Microfluidic Systems for High-Throughput Genomic Analysis and Drug Screening. <i>Journal of the Association for Laboratory Automation</i> , <b>2001</b> , 6, 71-75		
2	Integrated Plastic Microfluidic Devices for Bacterial Detection <b>2007</b> , 78-89		

- 1 Platelet Interactions with Von Willebrand Factor: Comparing Platelet Function in Acute and Stable Coronary Syndromes. *Blood*, **2016**, 128, 3829-3829 2.2