

James C Booth

List of Publications by Year in descending order

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papers

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687363

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839539

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23
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23
docs citations

23
times ranked

1170
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. Nature, 2013, 502, 532-536.	27.8	204
2	Quantitative Permittivity Measurements of Nanoliter Liquid Volumes in Microfluidic Channels to 40 GHz. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 3279-3288.	4.7	140
3	Large Dynamical Fluctuations in the Microwave Conductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ above T_c . Physical Review Letters, 1996, 77, 4438-4441.	7.8	62
4	A Compact Variable-Temperature Broadband Series-Resistor Calibration. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 188-195.	4.6	35
5	Label-free detection of conformational changes in switchable DNA nanostructures with microwave microfluidics. Nature Communications, 2019, 10, 1174.	12.8	33
6	Microwave-frequency loss and dispersion in ferroelectric $\text{Ba}_{0.3}\text{Sr}_{0.7}\text{TiO}_3$ thin films. Applied Physics Letters, 2005, 87, 082908.	3.3	29
7	Hybrid Characterization of Nanolitre Dielectric Fluids in a Single Microfluidic Channel Up to 110 GHz. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5063-5073.	4.6	29
8	Modeling electrical double-layer effects for microfluidic impedance spectroscopy from 100 kHz to 110 GHz. Lab on A Chip, 2017, 17, 2674-2681.	6.0	24
9	A Multistate Single-Connection Calibration for Microwave Microfluidics. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1099-1107.	4.6	24
10	Broadband Permittivity of Liquids Extracted from Transmission Line Measurements of Microfluidic Channels. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	23
11	Frequency Tuning and Spurious Signal Generation at Microwave Frequencies in Ferroelectric SrTiO_3 Thin-Film Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 391-396.	4.6	20
12	Microwave frequency tuning and harmonic generation in ferroelectric thin film transmission lines. Applied Physics Letters, 2002, 81, 718-720.	3.3	19
13	Third-Order Intermodulation Distortion and Harmonic Generation in Mismatched Weakly Nonlinear Transmission Lines. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 10-18.	4.6	17
14	Measuring ion-pairing and hydration in variable charge supramolecular cages with microwave microfluidics. Communications Chemistry, 2019, 2, .	4.5	12
15	Measurement of the electrical double layer capacitance and microwave dielectric loss near the strain-induced ferroelectric phase transitions in SrTiO_3 thin film transmission lines. Applied Physics Letters, 2002, 81, 718-720.	3.2	10
16	Measurement of Ion-Pairing Interactions in Buffer Solutions With Microwave Microfluidics. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 184-190.	3.4	4
17	How to extract distributed circuit parameters from the scattering parameters of a transmission line. , 2017, , .		3
18	The Effect of Annealing Thin Film Parylene C-Platinum Interfaces Characterized by Broadband Dielectric Spectroscopy. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
19	Measuring Ion-Pairing in Buffer Solutions with Microwave Microfluidics. , 2018, , .		2
20	Broadband, High-Frequency Permittivity Characterization for Epitaxial Ba_1O_3 Composition-Spread Thin Films. Physical Review Applied, 2021, 15, .	0.8	0
21	Measurements of Nonlinear Polarization Dynamics in the Tens of Gigahertz. Physical Review Applied, 2020, 13, .	3.8	1
22	Temperature dependence of the microwave conductivity near T_c in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\hat{\Gamma}}$ thin films. European Physical Journal D, 1996, 46, 1399-1400.	0.4	0
23	Determining Carbon Fiber Composite Loading with Flip-Chip Measurements to 110 GHz. , 2018, , .		0