

James C Booth

List of Publications by Year in descending order

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23
papers

696
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687363

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839539

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23
times ranked

1170
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband, High-Frequency Permittivity Characterization for Epitaxial BaO_3 Composition Spread Thin Films. <i>Physical Review Applied</i> , 2021, 15, .	3.8	1
2	The Effect of Annealing Thin Film Parylene C-Platinum Interfaces Characterized by Broadband Dielectric Spectroscopy. , 2021, , .		3
3	Measurements of Nonlinear Polarization Dynamics in the Tens of Gigahertz. <i>Physical Review Applied</i> , 2020, 13, .	3.8	1
4	Measuring ion-pairing and hydration in variable charge supramolecular cages with microwave microfluidics. <i>Communications Chemistry</i> , 2019, 2, .	4.5	12
5	Measurement of Ion-Pairing Interactions in Buffer Solutions With Microwave Microfluidics. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2019, 3, 184-190.	3.4	4
6	Label-free detection of conformational changes in switchable DNA nanostructures with microwave microfluidics. <i>Nature Communications</i> , 2019, 10, 1174.	12.8	33
7	A Multistate Single-Connection Calibration for Microwave Microfluidics. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018, 66, 1099-1107.	4.6	24
8	Determining Carbon Fiber Composite Loading with Flip-Chip Measurements to 110 GHz. , 2018, , .		0
9	Measuring Ion-Pairing in Buffer Solutions with Microwave Microfluidics. , 2018, , .		2
10	Hybrid Characterization of Nanolitre Dielectric Fluids in a Single Microfluidic Channel Up to 110 GHz. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 5063-5073.	4.6	29
11	Modeling electrical double-layer effects for microfluidic impedance spectroscopy from 100 kHz to 110 GHz. <i>Lab on A Chip</i> , 2017, 17, 2674-2681.	6.0	24
12	How to extract distributed circuit parameters from the scattering parameters of a transmission line. , 2017, , .		3
13	Strain-induced ferroelectric phase transitions in SrTiO_3 . <i>Physical Review Applied</i> , 2017, 10, 041101.	3.2	10
14	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. <i>Nature</i> , 2013, 502, 532-536.	27.8	204
15	A Compact Variable-Temperature Broadband Series-Resistor Calibration. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011, 59, 188-195.	4.6	35
16	Quantitative Permittivity Measurements of Nanoliter Liquid Volumes in Microfluidic Channels to 40 GHz. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010, 59, 3279-3288.	4.7	140
17	Third-Order Intermodulation Distortion and Harmonic Generation in Mismatched Weakly Nonlinear Transmission Lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009, 57, 10-18.	4.6	17
18	Broadband Permittivity of Liquids Extracted from Transmission Line Measurements of Microfluidic Channels. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007, , .	0.0	23

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Microwave frequency tuning and harmonic generation in ferroelectric thin film transmission lines. Applied Physics Letters, 2002, 81, 718-720.	3.3	19
22	Temperature dependence of the microwave conductivity near T_c in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ thin films. European Physical Journal D, 1996, 46, 1399-1400.	0.4	0
23	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