

# Arnaud Pothier

## List of Publications by Year in descending order

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51  
papers

589  
citations

759055

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h-index

713332

21  
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51  
all docs

51  
docs citations

51  
times ranked

644  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charging in Dielectricless Capacitive RF-MEMS Switches. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 231-236.	2.9	68
2	Microwave Power Limiting Devices Based on the Semiconductorâ€“Metal Transition in Vanadiumâ€“Dioxide Thin Films. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2352-2361.	2.9	60
3	Sub-Microsecond RF MEMS Switched Capacitors. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1314-1321.	2.9	57
4	Split Ring Resonators (SRRs) Based on Micro-Electro-Mechanical Deflectable Cantilever-Type Rings: Application to Tunable Stopband Filters. IEEE Microwave and Wireless Components Letters, 2011, 21, 243-245.	2.0	46
5	A Two-Pole Lumped-Element Programmable Filter With MEMS Pseudodigital Capacitor Banks. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 729-735.	2.9	32
6	Label free biosensors for human cell characterization using radio and microwave frequencies. , 2008, , .		29
7	Human Medulloblastoma Cell Lines: Investigating on Cancer Stem Cell-Like Phenotype. Cancers, 2020, 12, 226.	1.7	24
8	UHF-Dielectrophoresis Crossover Frequency as a New Marker for Discrimination of Glioblastoma Undifferentiated Cells. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 191-198.	2.3	23
9	Ku Band High-Q Tunable Surface-Mounted Cavity Resonator Using RF MEMS Varactors. IEEE Microwave and Wireless Components Letters, 2011, 21, 237-239.	2.0	21
10	Tunable band stop filters based on Metal-Insulator Transition in vanadium dioxide thin films. , 2008, , .		19
11	Label-free RF biosensors for human cell dielectric spectroscopy. International Journal of Microwave and Wireless Technologies, 2009, 1, 497-504.	1.5	16
12	Reconfigurable split rings based on MEMS switches and their application to tunable filters. Journal of Optics (United Kingdom), 2012, 14, 114001.	1.0	15
13	Titanium dioxide thin films deposited by pulsed laser deposition and integration in radio frequency devices: Study of structure, optical and dielectric properties. Applied Surface Science, 2012, 263, 111-114.	3.1	13
14	Simple strategy to tune the charge transport properties of conjugated polymer/carbon nanotube composites using an electric field assisted deposition technique. Polymer International, 2014, 63, 1378-1386.	1.6	13
15	Verification of Quartz Crystal Microbalance Array using Vector Network Analyzer and OpenQCM. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 10, 84.	0.7	12
16	Microfluidic Lab-on-a-Chip Based on UHF-Dielectrophoresis for Stemness Phenotype Characterization and Discrimination among Glioblastoma Cells. Biosensors, 2021, 11, 388.	2.3	12
17	3D micro-fabricated high-Q 140 GHz filter. , 2017, , .		9
18	Phase Shifter Design Based on Fast RF MEMS Switched Capacitors. , 2008, , .		8

#	ARTICLE	IF	CITATIONS
19	RF Remote Blood Glucose Sensor and a Microfluidic Vascular Phantom for Sensor Validation. <i>Biosensors</i> , 2021, 11, 494.	2.3	8
20	Phase Shifter Design Based on Fast RF MEMS Switched Capacitors. , 2008, , .		7
21	CPW self-resetting power limiting devices based on microwave power induced semiconductor-metal transition in vanadium dioxide. , 2009, , .		7
22	Compact thin-film packaged RF-MEMS switched capacitors. , 2016, , .		7
23	Biological cell discrimination based on their high frequency dielectrophoretic signatures at UHF frequencies. , 2017, , .		7
24	Effects of atmosphere on the reliability of RF-MEMS capacitive switches. , 2007, , .		6
25	Improved sedimentation field-flow fractionation separation channel for concentrated cellular elution. <i>Journal of Chromatography A</i> , 2013, 1302, 118-124.	1.8	6
26	Microwave switching functions using reversible metal-insulator transition (MIT) in VO <sub>2</sub> thin films. , 2007, , .		5
27	A novel packaging approach for RF MEMS switching functions on alumina substrate. <i>Microsystem Technologies</i> , 2007, 13, 1457-1461.	1.2	5
28	Microwave biosensors for identifying cancer cell aggressiveness grade. , 2012, , .		5
29	Label-free colorectal cancer cell line bio-sensing using RF resonator. , 2013, , .		5
30	BiCMOS Integrated Microfluidic Packaging by Wafer Bonding for Lab-on-Chip Applications. , 2017, , .		5
31	Microdosimetry Using Rhodamine B Within Macro- and Microsystems for Radiofrequency Signals Exposures of Biological Samples. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 1142-1150.	2.9	5
32	Effects of atmosphere on the reliability of RF-MEMS capacitive switches. , 2007, , .		4
33	Tunable frequency resonant biosensors dedicated to dielectric permittivity analysis of biological cell cytoplasm. , 2013, , .		4
34	Design and optimization of a MEMS quartz mass sensor array for biosensing. , 2017, , .		4
35	Characterization of Glioblastoma Cancer Stem Cells Sorted by Sedimentation Field-Flow Fractionation Using an Ultrahigh-Frequency Range Dielectrophoresis Biosensor. <i>Analytical Chemistry</i> , 2021, 93, 12664-12671.	3.2	4
36	KTN ferroelectrics-based microwave tunable phase shifter. <i>Microwave and Optical Technology Letters</i> , 2010, 52, 1148-1150.	0.9	3

#	ARTICLE	IF	CITATIONS
37	Bi-stable RF-MEMS switched capacitor based on metal-to-metal stiction. , 2013, , .		2
38	Asymmetrical mechanical design for bouncing suppression in RF-MEMS switches. , 2014, , .		2
39	An all-metal RF-MEMS switch with large displacement and potential mechanical creep reduction. , 2014, , .		2
40	A High Frequency Dielectrophoresis Cytometer for Continuous Flow Biological Cells Refinement. , 2021, , .		2
41	A Dual-Band MEMS Reconfigurable Filter for a Multi-Standard Radio Front-End. , 2008, , .		1
42	Impedance tuners and tuneable filters. , 0, , 271-306.		1
43	Mechanical nanogap switch for low-power on-board electronics. International Journal of Microwave and Wireless Technologies, 2015, 7, 515-520.	1.5	1
44	High Q zero level packaged RF-MEMS switched capacitor arrays. , 2016, , .		1
45	High Q zero level packaged RF-MEMS switched capacitor arrays. , 2016, , .		1
46	High-Frequency Dielectrophoresis Characterization of Differentiated vs Undifferentiated Medulloblastoma Cells. , 2018, , .		1
47	On-Chip Biosensors Based on Microwave Detection for Cell Scale Investigations. Communications in Computer and Information Science, 2010, , 51-63.	0.4	1
48	Reflectarray with integrated band reject filter for MEMS based beamforming applications. , 2005, , .		0
49	Asymmetrical mechanical design for bouncing suppression in RF-MEMS switches. , 2014, , .		0
50	Biological Cell Characterization and Discrimination Based on UHF-Dielectrophoresis for Next Generation of Liquid Biopsy Analysis. , 2021, , .		0
51	Ultra High Frequency Dielectrophoresis Manipulation to Monitor the Kinetics of Glioblastoma Cells Stemness Phenotype Acquirement. , 2022, , .		0