

# Arnaud Pothier

## List of Publications by Year in descending order

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51  
papers

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citations

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra High Frequency Dielectrophoresis Manipulation to Monitor the Kinetics of Glioblastoma Cells Stemness Phenotype Acquirement. , 2022, , .		0
2	A High Frequency Dielectrophoresis Cytometer for Continuous Flow Biological Cells Refinement. , 2021, , .		2
3	Characterization of Glioblastoma Cancer Stem Cells Sorted by Sedimentation Field-Flow Fractionation Using an Ultrahigh-Frequency Range Dielectrophoresis Biosensor. Analytical Chemistry, 2021, 93, 12664-12671.	3.2	4
4	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
5	Biological Cell Characterization and Discrimination Based on UHF-Dielectrophoresis for Next Generation of Liquid Biopsy Analysis. , 2021, , .		0
6	RF Remote Blood Glucose Sensor and a Microfluidic Vascular Phantom for Sensor Validation. Biosensors, 2021, 11, 494.	2.3	8
7	Microdosimetry Using Rhodamine B Within Macro- and Microsystems for Radiofrequency Signals Exposures of Biological Samples. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1142-1150.	2.9	5
8	Human Medulloblastoma Cell Lines: Investigating on Cancer Stem Cell-Like Phenotype. Cancers, 2020, 12, 226.	1.7	24
9	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
10	High-Frequency Dielectrophoresis Characterization of Differentiated vs Undifferentiated Medulloblastoma Cells. , 2018, , .		1
11	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
12	BiCMOS Integrated Microfluidic Packaging by Wafer Bonding for Lab-on-Chip Applications. , 2017, , .		5
13	Biological cell discrimination based on their high frequency dielectrophoretic signatures at UHF frequencies. , 2017, , .		7
14	Design and optimization of a MEMS quartz mass sensor array for biosensing. , 2017, , .		4
15	3D micro-fabricated high-Q 140 GHz filter. , 2017, , .		9
16	High Q zero level packaged RF-MEMS switched capacitor arrays. , 2016, , .		1
17	High Q zero level packaged RF-MEMS switched capacitor arrays. , 2016, , .		1
18	Compact thin-film packaged RF-MEMS switched capacitors. , 2016, , .		7

#	ARTICLE	IF	CITATIONS
19	Mechanical nanogap switch for low-power on-board electronics. International Journal of Microwave and Wireless Technologies, 2015, 7, 515-520.	1.5	1
20	Asymmetrical mechanical design for bouncing suppression in RF-MEMS switches. , 2014, , .		2
21	Asymmetrical mechanical design for bouncing suppression in RF-MEMS switches. , 2014, , .		0
22	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
23	An all-metal RF-MEMS switch with large displacement and potential mechanical creep reduction. , 2014, , .		2
24	Bi-stable RF-MEMS switched capacitor based on metal-to-metal stiction. , 2013, , .		2
25	Improved sedimentation field-flow fractionation separation channel for concentrated cellular elution. Journal of Chromatography A, 2013, 1302, 118-124.	1.8	6
26	Label-free colorectal cancer cell line bio-sensing using RF resonator. , 2013, , .		5
27	Tunable frequency resonant biosensors dedicated to dielectric permittivity analysis of biological cell cytoplasm. , 2013, , .		4
28	Microwave biosensors for identifying cancer cell aggressiveness grade. , 2012, , .		5
29	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
30	Reconfigurable split rings based on MEMS switches and their application to tunable filters. Journal of Optics (United Kingdom), 2012, 14, 114001.	1.0	15
31	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
32	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
33	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
34	KTN ferroelectricsâ€™based microwave tunable phase shifter. Microwave and Optical Technology Letters, 2010, 52, 1148-1150.	0.9	3
35	On-Chip Biosensors Based on Microwave Detection for Cell Scale Investigations. Communications in Computer and Information Science, 2010, , 51-63.	0.4	1
36	Label-free RF biosensors for human cell dielectric spectroscopy. International Journal of Microwave and Wireless Technologies, 2009, 1, 497-504.	1.5	16

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37	Charging in Dielectricless Capacitive RF-MEMS Switches. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 231-236.	2.9	68
38	CPW self-resetting power limiting devices based on microwave power induced semiconductor-metal transition in vanadium dioxide. , 2009, , .		7
39	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
40	Label free biosensors for human cell characterization using radio and microwave frequencies. , 2008, , .		29
41	A Dual-Band MEMS Reconfigurable Filter for a Multi-Standard Radio Front-End. , 2008, , .		1
42	Tunable band stop filters based on Metal-Insulator Transition in vanadium dioxide thin films. , 2008, , .		19
43	Phase Shifter Design Based on Fast RF MEMS Switched Capacitors. , 2008, , .		7
44	Phase Shifter Design Based on Fast RF MEMS Switched Capacitors. , 2008, , .		8
45	Effects of atmosphere on the reliability of RF-MEMS capacitive switches. , 2007, , .		6
46	Effects of atmosphere on the reliability of RF-MEMS capacitive switches. , 2007, , .		4
47	Microwave switching functions using reversible metal-insulator transition (MIT) in VO <sub>2</sub> thin films. , 2007, , .		5
48	Sub-Microsecond RF MEMS Switched Capacitors. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1314-1321.	2.9	57
49	A novel packaging approach for RF MEMS switching functions on alumina substrate. Microsystem Technologies, 2007, 13, 1457-1461.	1.2	5
50	Reflectarray with integrated band reject filter for MEMS based beamforming applications. , 2005, , .		0
51	Impedance tuners and tuneable filters. , 0, , 271-306.		1