

# Matthieu Raoux

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Integrating an Islet-Based Biosensor in the Artificial Pancreas: In Silico Proof-of-Concept. IEEE Transactions on Biomedical Engineering, 2022, 69, 899-909.	2.5	4
2	Vertical Organic Electrochemical Transistors and Electronics for Low Amplitude Micro-Organ Signals. Advanced Science, 2022, 9, e2105211.	5.6	22
3	Towards the Integration of an Islet-Based Biosensor in Closed-Loop Therapies for Patients With Type 1 Diabetes. Frontiers in Endocrinology, 2022, 13, 795225.	1.5	4
4	Dynamic Uni- and Multicellular Patterns Encode Biphasic Activity in Pancreatic Islets. Diabetes, 2021, 70, 878-888.	0.3	18
5	Design of Potassium-Selective Mixed Ion/Electron Conducting Polymers. Macromolecular Rapid Communications, 2020, 41, e2000134.	2.0	12
6	Sodium-Ion Selectivity Study of a Crown-Ether-Functionalized PEDOT Analog. ChemElectroChem, 2020, 7, 2826-2830.	1.7	10
7	The glutamate receptor GluK2 contributes to the regulation of glucose homeostasis and its deterioration during aging. Molecular Metabolism, 2019, 30, 152-160.	3.0	10
8	Multimed: An Integrated, Multi-Application Platform for the Real-Time Recording and Sub-Millisecond Processing of Biosignals. Sensors, 2018, 18, 2099.	2.1	9
9	A versatile electrode sorting module for MEAs: Implementation in a FPGA-based real-time system. , 2017, , .		1
10	Simultaneous monitoring of single cell and of micro-organ activity by PEDOT:PSS covered multi-electrode arrays. Materials Science and Engineering C, 2017, 81, 84-89.	3.8	28
11	Slow potentials encode intercellular coupling and insulin demand in pancreatic beta cells. Diabetologia, 2015, 58, 1291-1299.	2.9	39
12	Guiding pancreatic beta cells to target electrodes in a whole-cell biosensor for diabetes. Lab on A Chip, 2015, 15, 3880-3890.	3.1	28
13	Non-invasive long-term and real-time analysis of endocrine cells on micro-electrode arrays. Journal of Physiology, 2012, 590, 1085-1091.	1.3	27