

# Jean François Robillard

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5827428/publications.pdf>

Version: 2024-02-01

29  
papers

741  
citations

687363

13  
h-index

677142

22  
g-index

29  
all docs

29  
docs citations

29  
times ranked

776  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Tunable magnetoelastic phononic crystals. Applied Physics Letters, 2009, 95, .   | 3.3 | 181       |
| 2  | Unconventional Thin-Film Thermoelectric Converters: Structure, Simulation, and Comparative Study. Journal of Electronic Materials, 2014, 43, 2109-2114.              | 2.2 | 79        |
| 3  | Phononic engineering of silicon using $\text{SiO}_2$ on the fly $\text{e}$ -beam lithography and plasma etching. Microelectronic Engineering, 2014, 121, 131-134.    | 2.4 | 78        |
| 4  | Resolution limit of a phononic crystal superlens. Physical Review B, 2011, 83, .   | 3.2 | 57        |
| 5  | Time-resolved vibrations of two-dimensional hypersonic phononic crystals. Physical Review B, 2007, 76, .   | 3.2 | 48        |
| 6  | Collective acoustic modes in various two-dimensional crystals by ultrafast acoustics: Theory and experiment. Physical Review B, 2008, 78, .                          | 3.2 | 40        |
| 7  | High-laser-wavelength sensitivity of the picosecond ultrasonic response in transparent thin films. Physical Review B, 2006, 74, .                                    | 3.2 | 36        |
| 8  | Phase-controlling phononic crystals: Realization of acoustic Boolean logic gates. Journal of the Acoustical Society of America, 2011, 130, 1919-1925.                | 1.1 | 32        |
| 9  | Phase-controlling phononic crystal. Applied Physics Letters, 2011, 98, .   | 3.3 | 23        |
| 10 | Thermoelectric energy conversion: How good can silicon be?. Materials Letters, 2015, 157, 193-196.   | 2.6 | 21        |
| 11 | Fabrication of Thin-Film Silicon Membranes With Phononic Crystals for Thermal Conductivity Measurements. IEEE Electron Device Letters, 2016, 37, 1358-1361.          | 3.9 | 21        |
| 12 | A converging route towards very high frequency, mechanically flexible, and performance stable integrated electronics. Journal of Applied Physics, 2013, 113, 153701. | 2.5 | 16        |
| 13 | Native-oxide limited cross-plane thermal transport in suspended silicon membranes revealed by scanning thermal microscopy. Applied Physics Letters, 2017, 111, .     | 3.3 | 15        |
| 14 | Toward quantitative modeling of silicon phononic thermocrystals. Applied Physics Letters, 2015, 106, .   | 3.3 | 13        |
| 15 | Influence of amorphous layers on the thermal conductivity of phononic crystals. Physical Review B, 2018, 97, .   | 3.2 | 12        |
| 16 | Phase-control in two-dimensional phononic crystals. Journal of Applied Physics, 2011, 110, .   | 2.5 | 10        |
| 17 | Fabrication of integrated micrometer platform for thermoelectric measurements. , 2014, , .   |     | 10        |
| 18 | Application-oriented performance of RF CMOS technologies on flexible substrates. , 2015, , .   |     | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Substrate Engineering of Inductors on SOI for Improvement of Q-Factor and Application in LNA. IEEE Journal of the Electron Devices Society, 2020, 8, 959-969.         | 2.1 | 10        |
| 20 | Synthesis and characterization of low work function alkali oxide thin films for unconventional thermionic energy converters. Journal of Applied Physics, 2016, 120, . | 2.5 | 6         |
| 21 | Thermal conductivity of deca-nanometric patterned Si membranes by multiscale simulations. International Journal of Heat and Mass Transfer, 2018, 126, 830-835.        | 4.8 | 6         |
| 22 | Large-area femtosecond laser milling of silicon employing trench analysis. Optics and Laser Technology, 2021, 138, 106866.  | 4.6 | 6         |
| 23 | Ultra-foldable/stretchable wideband RF interconnects using laser ablation of metal film on a flexible substrate. , 2015, , .  |     | 4         |
| 24 | Thermal Analysis of Ultimately-Thinned-and-Transfer-Bonded CMOS on Mechanically Flexible Foils. IEEE Journal of the Electron Devices Society, 2019, 7, 973-978.       | 2.1 | 4         |
| 25 | Heat dissipation in partially perforated phononic nano-membranes with periodicities below 100 nm. APL Materials, 2022, 10, 051113.                                    | 5.1 | 3         |
| 26 | Picosecond ultrasonic investigations of phonons in 2D nano-scaled lattices. Journal of Physics: Conference Series, 2007, 92, 012027.                                  | 0.4 | 0         |
| 27 | Cost Effective Laser Structuration of Optical Waveguides on Thin Glass Interposer. Journal of Lightwave Technology, 2017, 35, 4445-4450.                              | 4.6 | 0         |
| 28 | Performance Evaluation of Silicon Based Thermoelectric Generators Interest of Coupling Low Thermal Conductivity Thin Films and a Planar Architecture. , 2018, , .     |     | 0         |
| 29 | Invariance of DC and RF Characteristics of Mechanically Flexible CMOS Technology on Plastic. Engineering Materials, 2014, , 81-103.                                   | 0.6 | 0         |