

# Jean-Pierre Fleurial

## List of Publications by Year in descending order

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26  
papers

2,560  
citations

471509

17  
h-index

610901

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

2788  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of Vacancy-Doped Neodymium Telluride for Thermoelectric Applications. <i>Chemistry of Materials</i> , 2019, 31, 4460-4468.	6.7	20
2	Thermoelectric Properties of Scandium Sesquitelluride. <i>Materials</i> , 2019, 12, 734.	2.9	14
3	Praseodymium Telluride: A High-Temperature, High-ZT Thermoelectric Material. <i>Joule</i> , 2018, 2, 698-709.	24.0	49
4	High Temperature Electronic and Thermal Transport Properties of $\text{EuGa}_{2-x}\text{In}_x\text{Sb}_2$ . <i>Journal of Electronic Materials</i> , 2017, 46, 4798-4804.	2.2	4
5	Electronic structure and thermoelectric properties of pnictogen-substituted $\text{Sn}_{1.5}\text{Te}_{1.5}$ ( $\text{Co}$ , $\text{Rh}$ , $\text{Ir}$ ) skutterudites. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	13
6	Enhanced thermoelectric properties of $\text{Sr}_5\text{In}_2\text{Sb}_6$ via Zn-doping. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10289-10295.	10.3	21
7	High temperature thermoelectric properties of Zn-doped $\text{Eu}_5\text{In}_2\text{Sb}_6$ . <i>Journal of Materials Chemistry C</i> , 2015, 3, 10518-10524.	5.5	27
8	Mechanochemical synthesis and high temperature thermoelectric properties of calcium-doped lanthanum telluride $\text{La}_{3-x}\text{Ca}_x\text{Te}_4$ . <i>Journal of Materials Chemistry C</i> , 2015, 3, 10459-10466.	5.5	19
9	Thermoelectric properties and electronic structure of the Zintl phase $\text{Sr}_5\text{In}_2\text{Sb}_6$ and the $\text{Ca}_5\text{In}_2\text{Sb}_6$ solid solution. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 015801.	1.8	9
10	Glass-like lattice thermal conductivity and high thermoelectric efficiency in $\text{Yb}_9\text{Mn}_{4.2}\text{Sb}_9$ . <i>Journal of Materials Chemistry A</i> , 2014, 2, 215-220.	10.3	109
11	Nonstoichiometry in the Zintl Phase $\text{Yb}_{1-x}\text{Zn}_2\text{Sb}_2$ as a Route to Thermoelectric Optimization. <i>Chemistry of Materials</i> , 2014, 26, 5710-5717.	6.7	95
12	Engineering of Novel Thermoelectric Materials and Devices for Next Generation, Long Life, 20% Efficient Space Power Systems. , 2013, , .		10
13	Measurement of the electrical resistivity and Hall coefficient at high temperatures. <i>Review of Scientific Instruments</i> , 2012, 83, 123902.	1.3	223
14	Synthesis and characterization of $\text{Mg}_2\text{Si}/\text{Si}$ nanocomposites prepared from $\text{MgH}_2$ and silicon, and their thermoelectric properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 24805.	6.7	54
15	Mechanochemical synthesis and thermoelectric properties of high quality magnesium silicide. <i>Journal of Materials Chemistry</i> , 2011, 21, 12259.	6.7	204
16	Nanostructured Silicon-based Composites for High Temperature Thermoelectric Applications. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1267, 1.	0.1	0
17	Synthesis and Thermoelectric Properties of Doped $\text{Yb}_{14}\text{MnSb}_{11-x}\text{Bi}_x$ Zintl. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1267, 1.	0.1	2
18	Nanostructured materials for thermoelectric applications. <i>Chemical Communications</i> , 2010, 46, 8311.	4.1	198

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19	Rapid Solid-State Synthesis of Nanostructured Silicon. Chemistry of Materials, 2010, 22, 2534-2540.	6.7	17
20	High Temperature Thermoelectric Properties of Nano-Bulk Silicon and Silicon Germanium. Materials Research Society Symposia Proceedings, 2009, 1166, 4.	0.1	8
21	Nanostructured Bulk Silicon as an Effective Thermoelectric Material. Advanced Functional Materials, 2009, 19, 2445-2452.	14.9	521
22	Thermoelectric performance of lanthanum telluride produced via mechanical alloying. Physical Review B, 2008, 78, .	3.2	224
23	Transient cooling of thermoelectric coolers and its applications for microdevices. Energy Conversion and Management, 2005, 46, 1407-1421.	9.2	119
24	Multistage thermoelectric microcoolers. Journal of Applied Physics, 2004, 95, 8226-8232.	2.5	40
25	Thermoelectric microdevice fabricated by a MEMS-like electrochemical process. Nature Materials, 2003, 2, 528-531.	27.5	428
26	Supercooling of Peltier cooler using a current pulse. Journal of Applied Physics, 2002, 92, 1564-1569.	2.5	132