

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	Nanostructured Bulk Silicon as an Effective Thermoelectric Material. <i>Advanced Functional Materials</i> , 2009, 19, 2445-2452.	14.9	521
2	Thermoelectric microdevice fabricated by a MEMS-like electrochemical process. <i>Nature Materials</i> , 2003, 2, 528-531.	27.5	428
3	Thermoelectric performance of lanthanum telluride produced via mechanical alloying. <i>Physical Review B</i> , 2008, 78, .	3.2	224
4	Measurement of the electrical resistivity and Hall coefficient at high temperatures. <i>Review of Scientific Instruments</i> , 2012, 83, 123902.	1.3	223
5	Mechanochemical synthesis and thermoelectric properties of high quality magnesium silicide. <i>Journal of Materials Chemistry</i> , 2011, 21, 12259.	6.7	204
6	Nanostructured materials for thermoelectric applications. <i>Chemical Communications</i> , 2010, 46, 8311.	4.1	198
7	Supercooling of Peltier cooler using a current pulse. <i>Journal of Applied Physics</i> , 2002, 92, 1564-1569.	2.5	132
8	Transient cooling of thermoelectric coolers and its applications for microdevices. <i>Energy Conversion and Management</i> , 2005, 46, 1407-1421.	9.2	119
9	Glass-like lattice thermal conductivity and high thermoelectric efficiency in $\text{Yb}_{0.9}\text{Mn}_{0.4}\text{Sb}_{0.9}$. <i>Journal of Materials Chemistry A</i> , 2014, 2, 215-220.	10.3	109
10	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
11	Synthesis and characterization of $\text{Mg}_2\text{Si}/\text{Si}$ nanocomposites prepared from MgH_2 and silicon, and their thermoelectric properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 24805.	6.7	54
12	Praseodymium Telluride: A High-Temperature, High-ZT Thermoelectric Material. <i>Joule</i> , 2018, 2, 698-709.	24.0	49
13	Multistage thermoelectric microcoolers. <i>Journal of Applied Physics</i> , 2004, 95, 8226-8232.	2.5	40
14	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
15	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
16	Synthesis and Characterization of Vacancy-Doped Neodymium Telluride for Thermoelectric Applications. <i>Chemistry of Materials</i> , 2019, 31, 4460-4468.	6.7	20
17	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
18	Rapid Solid-State Synthesis of Nanostructured Silicon. <i>Chemistry of Materials</i> , 2010, 22, 2534-2540.	6.7	17

#	ARTICLE	IF	CITATIONS
19	Thermoelectric Properties of Scandium Sesquitelluride. <i>Materials</i> , 2019, 12, 734.	2.9	14
20	Electronic structure and thermoelectric properties of pnictogen-substituted $\text{A}_{1-x}\text{Sn}_{1.5}\text{Te}_{1.5}$ ($\text{A} = \text{Co, Rh, Ir}$) skutterudites. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	13
21	Engineering of Novel Thermoelectric Materials and Devices for Next Generation, Long Life, 20% Efficient Space Power Systems. , 2013, , .		10
22	Thermoelectric properties and electronic structure of the Zintl phase $\text{Sr}_5\text{In}_2\text{Sb}_6$ and the $\text{Ca}_5\text{A}'_x\text{Sr}_x\text{In}_2\text{Sb}_6$ solid solution. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 015801.	1.8	9
23	High Temperature Thermoelectric Properties of Nano-Bulk Silicon and Silicon Germanium. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1166, 4.	0.1	8
24	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
25	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
26	Nanostructured Silicon-based Composites for High Temperature Thermoelectric Applications. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1267, 1.	0.1	0