Stphane Bourdais

List of Publications by Citations

29 papers	918 citations	14 h-index	30 g-index
30 ext. papers	1,053 ext. citations	7.1 avg, IF	3.73 L-index

#	Paper	IF	Citations
29	Is the Cu/Zn Disorder the Main Culprit for the Voltage Deficit in Kesterite Solar Cells?. *Advanced Energy Materials*, **2016**, 6, 1502276	21.8	221
28	On the origin of band-tails in kesterite. *Solar Energy Materials and Solar Cells*, **2018**, 179, 142-151	6.4	100
27	Fine-Tuning the Sn Content in CZTSSe Thin Films to Achieve 10.8% Solar Cell Efficiency from Spray-Deposited Water–Ethanol-Based Colloidal Inks. *Advanced Energy Materials*, **2015**, 5, 1501404	21.8	93
26	8.6% Efficient CZTSSe Solar Cells Sprayed from Water-Ethanol CZTS Colloidal Solutions. *Journal of Physical Chemistry Letters*, **2014**, 5, 3763-7	6.4	86
25	Nanocrystalline solar cells with an antimony sulfide solid absorber by atomic layer deposition. *Energy and Environmental Science*, **2013**, 6, 67-71	35.4	73
24	Deep Defects in Cu2ZnSn(S,Se)4 Solar Cells with Varying Se Content. *Physical Review Applied*, **2016**, 5,	4.3	58
23	On Charge Carrier Recombination in Sb2S3 and Its Implication for the Performance of Solar Cells. *Journal of Physical Chemistry C*, **2013**, 117, 20525-20530	3.8	43
22	Efficient Cu2ZnSnS4 solar cells spray coated from a hydro-alcoholic colloid synthesized by instantaneous reaction. *RSC Advances*, **2014**, 4, 14655-14662	3.7	35
21	Thin-film polycrystalline Si solar cells on foreign substrates: film formation at intermediate temperatures (700–1300 °C). *Applied Physics A: Materials Science and Processing*, **2004**, 79, 469-480	2.6	31
20	Polycrystalline silicon solar cells on mullite substrates. *Solar Energy Materials and Solar Cells*, **2002**, 71, 245-252	6.4	25
19	Thin-film polysilicon solar cells on foreign substrates using direct thermal CVD: material and solar cell design. *Thin Solid Films*, **2002**, 403-404, 229-237	2.2	24
18	Solution-based synthesis of kesterite thin film semiconductors. *JPhys Energy*, **2020**, 2, 012003	4.9	19
17	A two-dimensional modeling of the fine-grained polycrystalline silicon thin-film solar cells. *Thin Solid Films*, **2002**, 403-404, 258-262	2.2	15
16	Silicon deposition on mullite ceramic substrates for thin-film solar cells. *Progress in Photovoltaics: Research and Applications*, **1999**, 7, 437-447	6.8	14
15	119Sn MAS NMR to Assess the Cationic Disorder and the Anionic Distribution in Sulfoselenide Cu2ZnSn(SxSe1−x)4 Compounds Prepared from Colloidal and Ceramic Routes. *Journal of Physical Chemistry C*, **2015**, 119, 26849-26857	3.8	12
14	EBIC technique applied to polycrystalline silicon thin films: minority carrier diffusion length improvement by hydrogenation. *Thin Solid Films*, **2002**, 403-404, 549-552	2.2	12
13	Comparative study of rapid and classical thermal phosphorus diffusion on polycrystalline silicon thin films. *Solar Energy Materials and Solar Cells*, **2001**, 65, 487-493	6.4	12

12	Impurity diffusion from uncoated foreign substrates during high temperature CVD for thin-film Si solar cells. *Solar Energy Materials and Solar Cells*, **2000**, 61, 301-309	6.4	10
11	Electronic transport properties of polycrystalline silicon films deposited on ceramic substrates. *Physica B: Condensed Matter*, **1999**, 273-274, 544-548	2.8	7
10	Optimisation of a combined transient-ion-drift/rapid thermal annealing process for copper detection in silicon. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 102, 218-221	3.1	5
9	Nucleation and growth of silicon on ceramic substrates by RTCVD at atmospheric pressure. *European Physical Journal Special Topics*, **2001**, 11, Pr3-301-Pr3-306		4
8	High-throughput bandstructure simulations of van der Waals hetero-bilayers formed by 1T and 2H monolayers. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	4
7	Polycrystalline silicon films formation on foreign substrates by a rapid thermal-CVD technique		3
6	Thin-film silicon formation on foreign substrates by rapid thermal chemical vapour deposition for photovoltaic application. *Progress in Photovoltaics: Research and Applications*, **1998**, 6, 219-231	6.8	3
5	The initial stages of Si thin deposits on foreign substrates in a rapid thermal chemical vapor phase reactor. *Materials Science in Semiconductor Processing*, **1998**, 1, 293-297	4.3	3
4	Three-Dimensional Emitter Based on Locally Enhanced Diffusion (TREBLE) Structure: Modeling and Formation. *Solid State Phenomena*, **2001**, 82-84, 713-718	0.4	3
3	Defects in Cu2ZnSn(S,Se)4 solar cells studied by photoluminescence, admittance and IVT **2014**,		1
2	Analysis of Cu traces in Si using Transient Ion Drift combined with Rapid Thermal Annealing.. *Materials Research Society Symposia Proceedings*, **2002**, 719, 13121		1
1	Carrier collection in fine-grained p-n junction polysilicon solar cells		1