

# Felipe Kremer

## List of Publications by Year in descending order

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43  
papers

1,149  
citations

516710

16  
h-index

395702

33  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1451  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale localized contacts for high fill factors in polymer-passivated perovskite solar cells. Science, 2021, 371, 390-395.	12.6	270
2	Centimetre-scale perovskite solar cells with fill factors of more than 86 per cent. Nature, 2022, 601, 573-578.	27.8	137
3	Role of Thermodynamics in the Shape Transformation of Embedded Metal Nanoparticles Induced by Swift Heavy-Ion Irradiation. Physical Review Letters, 2011, 106, 095505.	7.8	100
4	Tracks and Voids in Amorphous Ge Induced by Swift Heavy-Ion Irradiation. Physical Review Letters, 2013, 110, 245502.	7.8	82
5	Hydrogenation of Phosphorus-Doped Polycrystalline Silicon Films for Passivating Contact Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 5554-5560.	8.0	47
6	Uranium(III)-carbon multiple bonding supported by arene $\pi$ -bonding in mixed-valence hexauranium nanometre-scale rings. Nature Communications, 2018, 9, 2097.	12.8	43
7	Electrospun Manganese-Based Perovskites as Efficient Oxygen Exchange Redox Materials for Improved Solar Thermochemical CO <sub>2</sub> Splitting. ACS Applied Energy Materials, 2019, 2, 2494-2505.	5.1	43
8	Lead-free (Ag,K)NbO <sub>3</sub> materials for high-performance explosive energy conversion. Science Advances, 2020, 6, eaba0367.	10.3	38
9	On the origin of dislocation generation and annihilation in $\pm$ -Ga <sub>2</sub> O <sub>3</sub> epilayers on sapphire. Applied Physics Letters, 2019, 115, .	3.3	37
10	Introduction of TiO <sub>2</sub> in CuI for Its Improved Performance as a p-Type Transparent Conductor. ACS Applied Materials & Interfaces, 2019, 11, 24254-24263.	8.0	33
11	Latent ion tracks in amorphous silicon. Physical Review B, 2013, 88, .	3.2	31
12	Nano-porosity in GaSb induced by swift heavy ion irradiation. Applied Physics Letters, 2014, 104, .	3.3	27
13	Nanoscale density variations induced by high energy heavy ions in amorphous silicon nitride and silicon dioxide. Nanotechnology, 2018, 29, 144004.	2.6	26
14	Above-Band Gap Photoinduced Stabilization of Engineered Ferroelectric Domains. ACS Applied Materials & Interfaces, 2018, 10, 12781-12789.	8.0	26
15	Shape transformation of Sn nanocrystals induced by swift heavy-ion irradiation and the necessity of a molten ion track. Physical Review B, 2010, 82, .	3.2	24
16	Porosity as a function of stoichiometry and implantation temperature in Ge/Si <sub>1-x</sub> Gex alloys. Journal of Applied Physics, 2016, 119, .	2.5	20
17	Aging effects on the nucleation of Pb nanoparticles in silica. Journal of Applied Physics, 2011, 109, 014320.	2.5	14
18	Phase transformation of ZnMoO <sub>4</sub> by localized thermal spike. Journal of Applied Physics, 2014, 115, .	2.5	13

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19	The influence of capping layers on pore formation in Ge during ion implantation. Journal of Applied Physics, 2016, 120, .	2.5	13
20	Lift-off protocols for thin films for use in EXAFS experiments. Journal of Synchrotron Radiation, 2013, 20, 426-432.	2.4	12
21	Void evolution and porosity under arsenic ion irradiation in GaAs <sub>1-x</sub> Sbx alloys. Journal Physics D: Applied Physics, 2017, 50, 125101.	2.8	12
22	Low temperature aging effects on the formation of Sn nanoclusters in SiO <sub>2</sub> -Si films and interfaces. Applied Physics Letters, 2007, 91, .	3.3	11
23	Elongation of metallic nanoparticles at the interface of silicon dioxide and silicon nitride. Nuclear Instruments & Methods in Physics Research B, 2017, 409, 328-332.	1.4	11
24	Thermal response of nanoscale cylindrical inclusions of amorphous silica embedded in $\alpha$ -quartz. Physical Review B, 2014, 90, .	3.2	9
25	Morphology of ion irradiation induced nano-porous structures in Ge and Si <sub>1-x</sub> Gex alloys. Journal of Applied Physics, 2017, 121, 115705.	2.5	8
26	Photovoltaic Effect of a Ferroelectric-Luminescent Heterostructure under Infrared Light Illumination. ACS Applied Materials & Interfaces, 2018, 10, 29786-29794.	8.0	8
27	Impurity-enhanced solid-state amorphization: the Ni-Si thin film reaction altered by nitrogen. Journal Physics D: Applied Physics, 2019, 52, 145301.	2.8	8
28	Correlation between structural evolution and photoluminescence of Sn nanoclusters in SiO <sub>2</sub> layers. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 157-160.	1.4	7
29	Structural and electrical properties of In-implanted Ge. Journal of Applied Physics, 2015, 118, .	2.5	7
30	Direct observation of substitutional Ga after ion implantation in Ge by means of extended x-ray absorption fine structure. Applied Physics Letters, 2012, 101, .	3.3	6
31	Formation of Ge nanoparticles in SiO <sub>x</sub> N <sub>y</sub> by ion implantation and thermal annealing. Journal of Applied Physics, 2015, 118, .	2.5	6
32	Orientation dependence of swift heavy ion track formation in potassium titanyl phosphate. Journal of Materials Research, 2016, 31, 2329-2336.	2.6	6
33	Enhanced electrical activation in In-implanted Ge by C co-doping. Applied Physics Letters, 2015, 107, .	3.3	3
34	Highly Efficient Visible Light Catalysts Driven by Ti <sup>3+</sup> -V <sup>2+</sup> -Ti <sup>4+</sup> -N <sup>3-</sup> Defect Clusters. ChemNanoMat, 2019, 5, 169-174.	1.9	3
35	Enhancement of the magnetic properties of iron nanoparticles upon incorporation of samarium. Materials Research Express, 2014, 1, 026110.	1.6	2
36	Electrical and structural properties of In-implanted Si <sub>1-x</sub> Gex alloys. Journal of Applied Physics, 2016, 119, .	2.5	2

#	ARTICLE	IF	CITATIONS
37	Tailoring the blue-violet photoluminescence from Sn-implanted SiO <sub>2</sub> using a two-step annealing process. Journal Physics D: Applied Physics, 2012, 45, 095304.	2.8	1
38	Enhanced Electrical Activation in In-Implanted Si <sub>0.35</sub> Ge <sub>0.65</sub> by C Co-Doping. Materials Research Letters, 2017, 5, 29-34.	8.7	1
39	Evidence for the formation of SiGe nanoparticles in Ge-implanted Si <sub>3</sub> N <sub>4</sub> . Journal of Applied Physics, 2017, 121, .	2.5	1
40	Evidence of tetragonal distortion as the origin of the ferromagnetic ground state in <sup>57</sup> Fe nanoparticles. Physical Review B, 2017, 96, .	3.2	1
41	Formation of dense and aligned planar arrangements of Pb nanoparticles at silica/silicon interfaces. Materials Research Society Symposia Proceedings, 2011, 1308, 60201.	0.1	0
42	Electrical and Structural Properties of In and In + C Doped Ge. Microscopy and Microanalysis, 2016, 22, 1444-1445.	0.4	0
43	EXAFS study of the structural properties of In and In + C implanted Ge. Journal of Physics: Conference Series, 2016, 712, 012102.	0.4	0