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Susanne Siebentritt



Full professor

Research Topics

Semiconductors, Photovoltaics

Faculty or Centre Faculty of Science, Technology and Communication

Postal Address

Research Unit RU Physics and Materials Science Laboratory for photovoltaics

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Profile

CV

Publications

Information on my research interests is found on our group's webpage $\underline{\mathsf{LPV}}$

Since 2007:

Professor at the University of Luxembourg

Head of Laboratory for Photovoltaics

1998 - 2007

Hahn-Meitner-Institute (now Helmholtz-Zentrum Berlin)

Head of MOVPE group

solar cells, epitaxy and defect spectroscopy at chalcopyrites

1996 - 1998

Hahn-Meitner-Institute (now Helmholtz-Zentrum Berlin)

postdoc

ETA solar cells (extremely thin absorber)

1994-1996

Free University Berlin

vibrational spectroscopy of metal and graphite surfaces

1993-1994

University of California, Los Angeles

postdoc

pulsed laser deposition of metastable semiconductor alloys

1989 - 1993

Institut for solar energy research (ISFH), Hannover/ University of Hannover

PhD student

organic solar cells, carrier generation and transport mechanisms in zinc phthalocyanine

Last updated on: 04 Oct 2016

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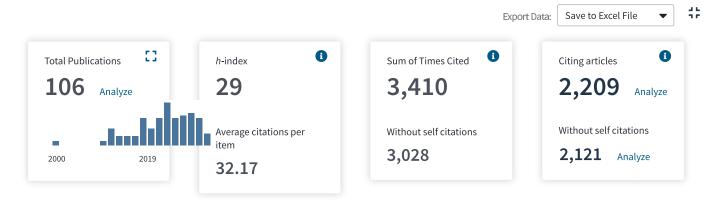
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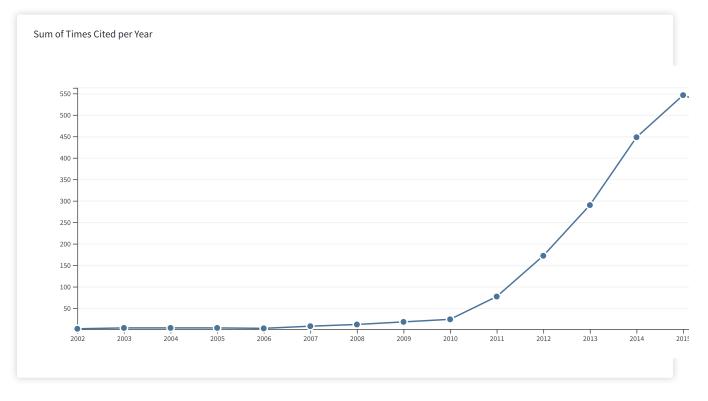
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1.	Kesterites - a challenging material for solar cells	61	77	56	45	22	372	46.50
	By: Siebentritt, Susanne; Schorr, Susan PROGRESS IN PHOTOVOLTAICS Volume: 20 Issue: 5 Special Issue: SI Pages: 512- 519 Published: AUG 2012							
2.	The Consequences of Kesterite Equilibria for Efficient Solar Cells							
	By: Redinger, Alex; Berg, Dominik M.; Dale, Philip J.; et al. JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Volume: 133 Issue: 10 Pages: 3320-3323 Published: MAR 16 2011	57	51	32	30	18	355	39.44
3.	Why are kesterite solar cells not 20% efficient?							
	By: Siebentritt, Susanne Conference: Symposium B on Thin Film Chalcogenide Photovoltaic Materials of the 11th E-MRS Spring Meetings Location: Strasbourg, FRANCE Date: MAY, 2012 Sponsor(s): E MRS; Avancis; Solar Frontier THIN SOLID FILMS Volume: 535 Pages: 1-4 Published: MAY 15 2013	35	30	44	39	12	191	27.29
4.	Thin film solar cells based on the ternary compound Cu2SnS3							
	By: Berg, Dominik M.; Djemour, Rabie; Guetay, Levent; et al. THIN SOLID FILMS Volume: 520 Issue: 19 Pages: 6291-6294 Published: JUL 31 2012	39	33	33	30	10	170	21.25
5.	Detection of a ZnSe secondary phase in coevaporated Cu2ZnSnSe4 thin films							
	By: Redinger, Alex; Hoenes, Katja; Fontane, Xavier; et al. APPLIED PHYSICS LETTERS Volume: 98 Issue: 10 Article Number: 101907 Published: MAR 7 2011	31	27	17	13	5	162	18.00
6.	Raman analysis of monoclinic Cu2SnS3 thin films							
	By: Berg, Dominik M.; Djemour, Rabie; Guetay, Levent; et al. APPLIED PHYSICS LETTERS Volume: 100 Issue: 19 Article Number: 192103 Published: MAY 7 2012	29	32	27	32	12	160	20.00
7.	The electronic structure of chalcopyrites-bands, point defects and grain boundaries							
	By: Siebentritt, Susanne; Igalson, Malgorzata; Persson, Clas; et al. PROGRESS IN PHOTOVOLTAICS Volume: 18 Issue: 6 Pages: 390-410 Published: SEP 2010	17	17	22	18	5	156	15.60
8.	What limits the efficiency of chalcopyrite solar cells?							
	By: Siebentritt, Susanne SOLAR ENERGY MATERIALS AND SOLAR CELLS Volume: 95 Issue: 6 Special Issue: SI Pages: 1471-1476 Published: JUN 2011	20	22	16	11	12	122	13.56
9.	Is the Cu/Zn Disorder the Main Culprit for the Voltage Deficit in Kesterite Solar Cells?							
	By: Bourdais, Stephane; Chone, Christophe; Delatouche, Bruno; et al. ADVANCED ENERGY MATERIALS Volume: 6 Issue: 12 Article Number: 1502276 Published: JUN 22 2016	0	8	39	41	16	104	26.00
10.	Grain boundaries in Cu(In, Ga)(Se, S)(2) thin-film solar cells							
	By: Rau, Uwe; Taretto, Kurt; Siebentritt, Susanne APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 96 Issue: 1 Special Issue: SI Pages: 221-234 Published: JUL 2009	16	14	12	6	3	104	9.45
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