

# Soeren Alkaersig Jensen

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

2,258  
citations

471509

17  
h-index

580821

25  
g-index

30  
all docs

30  
docs citations

30  
times ranked

4240  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoexcitation cascade and multiple hot-carrier generation in graphene. <i>Nature Physics</i> , 2013, 9, 248-252.	16.7	512
2	Synthesis of structurally well-defined and liquid-phase-processable graphene nanoribbons. <i>Nature Chemistry</i> , 2014, 6, 126-132.	13.6	468
3	Phonon-Induced Electron Scattering Limits Free Charge Mobility in Methylammonium Lead Iodide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4991-4996.	4.6	186
4	The roles of carrier concentration and interface, bulk, and grain-boundary recombination for 25% efficient CdTe solar cells. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	183
5	Thermodynamic picture of ultrafast charge transport in graphene. <i>Nature Communications</i> , 2015, 6, 7655.	12.8	147
6	Bottom-Up Synthesis of Liquid-Phase-Processable Graphene Nanoribbons with Near-Infrared Absorption. <i>ACS Nano</i> , 2014, 8, 11622-11630.	14.6	138
7	Ultrafast Photoconductivity of Graphene Nanoribbons and Carbon Nanotubes. <i>Nano Letters</i> , 2013, 13, 5925-5930.	9.1	117
8	Competing Ultrafast Energy Relaxation Pathways in Photoexcited Graphene. <i>Nano Letters</i> , 2014, 14, 5839-5845.	9.1	97
9	Beneficial effect of post-deposition treatment in high-efficiency Cu(In,Ga)Se <sub>2</sub> solar cells through reduced potential fluctuations. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	75
10	Size-Dependent Electron Transfer from PbSe Quantum Dots to SnO <sub>2</sub> Monitored by Picosecond Terahertz Spectroscopy. <i>Nano Letters</i> , 2011, 11, 5234-5239.	9.1	53
11	Obtaining Large Columnar CdTe Grains and Long Lifetime on Nanocrystalline CdSe, MgZnO, or CdS Layers. <i>Advanced Energy Materials</i> , 2018, 8, 1702666.	19.5	49
12	Density-dependent electron scattering in photoexcited GaAs in strongly diffusive regime. <i>Applied Physics Letters</i> , 2013, 102, 231120.	3.3	48
13	Long carrier lifetimes in large-grain polycrystalline CdTe without CdCl <sub>2</sub> . <i>Applied Physics Letters</i> , 2016, 108, .	3.3	30
14	Relationship of Open-Circuit Voltage to CdTe Hole Concentration and Lifetime. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 1641-1644.	2.5	30
15	Enhanced p-Type Doping in Polycrystalline CdTe Films: Deposition and Activation. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 912-917.	2.5	23
16	Time-resolved correlative optical microscopy of charge-carrier transport, recombination, and space-charge fields in CdTe heterostructures. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	18
17	Optically induced metastability in Cu(In,Ga)Se <sub>2</sub> . <i>Scientific Reports</i> , 2017, 7, 13788.	3.3	18
18	Survey of Models for Acquiring the Optical Properties of Translucent Materials. <i>Computer Graphics Forum</i> , 2020, 39, 729-755.	3.0	17

#	ARTICLE	IF	CITATIONS
19	Terahertz Depolarization Effects in Colloidal TiO <sub>2</sub> Films Reveal Particle Morphology. Journal of Physical Chemistry C, 2014, 118, 1191-1197.	3.1	16
20	Carrier multiplication in bulk indium nitride. Applied Physics Letters, 2012, 101, .	3.3	14
21	Scatterometry for optimization of injection molded nanostructures at the fabrication line. International Journal of Advanced Manufacturing Technology, 2018, 99, 2669-2676.	3.0	6
22	Replacing libraries in scatterometry. Optics Express, 2018, 26, 34622.	3.4	6
23	In-line characterization of nanostructures produced by roll-to-roll nanoimprinting. Optics Express, 2021, 29, 3882.	3.4	4
24	Use of Rayleigh-Rice Theory for Analysis of Ellipsometry Data on Rough CIGS Films. Physica Status Solidi C: Current Topics in Solid State Physics, 2017, 14, 1700217.	0.8	2
25	Ultrafast carrier dynamics in graphene and graphene nanostructures. Terahertz Science & Technology, 2020, 13, 135-148.	0.5	1
26	Hot carrier multiplication in graphene. , 2013, , .		0
27	Density-dependent electron scattering in photoexcited GaAs. , 2013, , .		0
28	Terahertz Carrier Dynamics in Graphene and Graphene Nanostructures. , 2014, , .		0
29	Defect states in copper indium gallium selenide solar cells from two-wavelength excitation photoluminescence spectroscopy. , 2016, , .		0
30	Optical metrology for nanowires grown with molecular beam epitaxy. , 2020, , .		0