Stephan Suckow

List of Publications by Year
in descending order

25 papers	493 citations	840776 11 h-index	677142 22 g-index
25 all docs	25 docs citations	25 times ranked	906 citing authors

#	Article	IF	Citations
1	Monolithically Integrated Perovskite Semiconductor Lasers on Silicon Photonic Chips by Scalable Top-Down Fabrication. Nano Letters, 2018, 18, 6915-6923.	9.1	98
2	Fast and reliable calculation of the twoâ€diode model without simplifications. Progress in Photovoltaics: Research and Applications, 2014, 22, 494-501.	8.1	71
3	High Responsivity and Quantum Efficiency of Graphene/Silicon Photodiodes Achieved by Interdigitating Schottky and Gated Regions. ACS Photonics, 2019, 6, 107-115.	6.6	68
4	Integrated perovskite lasers on a silicon nitride waveguide platform by cost-effective high throughput fabrication. Optics Express, 2017, 25, 13199.	3.4	55
5	Infrared transparent graphene heater for silicon photonic integrated circuits. Optics Express, 2016, 24, 7871.	3.4	44
6	Defect passivation by hydrogen reincorporation for silicon quantum dots in SiC/SiOx hetero-superlattice. Journal of Non-Crystalline Solids, 2012, 358, 2145-2149.	3.1	20
7	Hybrid Devices by Selective and Conformal Deposition of PtSe₂ at Low Temperatures. Advanced Functional Materials, 2021, 31, 2103936.	14.9	17
8	Towards the Predicted High Performance of Waveguide Integrated Electro-Refractive Phase Modulators Based on Graphene. IEEE Photonics Journal, 2017, 9, 1-7.	2.0	15
9	Two-Dimensional Platinum Diselenide Waveguide-Integrated Infrared Photodetectors. ACS Photonics, 2022, 9, 859-867.	6.6	14
10	High-efficiency grating coupler for an ultralow-loss Si₃N₄-based platform. Optics Letters, 2022, 47, 2498.	3.3	13
11	Study of Nickel Silicide Formation and Associated Fill-Factor Loss Analysis for Silicon Solar Cells With Plated Ni-Cu Based Metallization. IEEE Journal of Photovoltaics, 2015, 5, 1554-1562.	2.5	12
12	Resonant and phonon-assisted tunneling transport through silicon quantum dots embedded in SiO2. Applied Physics Letters, 2008, 93, 132111.	3.3	10
13	N2O plasma treatment for minimization of background plating in silicon solar cells with Niâ€“Cu front side metallization. Solar Energy Materials and Solar Cells, 2016, 144, 671-677.	6.2	8
14	Bringing Plasmonics Into CMOS Photonic Foundries: Aluminum Plasmonics on Si$_{3}$N$_{4}$ for Biosensing Applications. Journal of Lightwave Technology, 2019, 37, 5516-5524.	4.6	8
15	Quantum wells based on Si/SiOx stacks for nanostructured absorbers. Solar Energy Materials and Solar Cells, 2010, 94, 1893-1896.	6.2	7
16	SiliconPV 2012 generation of defect-related acceptor states by laser doping. Solar Energy Materials and Solar Cells, 2012, 106, 2-6.	6.2	7
17	Improved charge transport through Si based multiple quantum wells with substoichiometric SiOx barrier layers. Journal of Applied Physics, 2009, 106, 083706.	2.5	6
18	Structural characterization of crystallized Si thin film material by HRTEM and Raman spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 588-591.	1.8	6

#	Article	IF	Citations
19	Gettering in multicrystalline silicon wafers with screenâ€printed emitters. Progress in Photovoltaics: Research and Applications, 2011, 19, 946-953.	8.1	4
20	Unbiased Plasmonic-Assisted Integrated Graphene Photodetectors. ACS Photonics, 2022, 9, 1992-2007.	6.6	4
21	Optical evaluation of doping concentration in SiO₂doping source layer for silicon quantum dot materials. EPJ Photovoltaics, 2011, 2, 25001.	1.6	2
22	56 Gb/s WDM transmitter module based on silicon microrings using comb lasers. , 2015, , .		2
23	Stark effect at dislocations in silicon for modulation of a 1.5 Î¼m light emitter. Proceedings of SPIE, 2008, , .	0.8	1
24	Phosphorus gettering of iron by screenâ€printed emitters in monocrystalline Czochralski silicon wafers. Progress in Photovoltaics: Research and Applications, 2013, 21, 900-905.	8.1	1
25	Geometric broadening in resonant tunneling through Si quantum dots. Energy Procedia, 2010, 2, 207-212.	1.8	0