

# Kenneth JÅrrendahl

## List of Publications by Year in descending order

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85  
papers

1,583  
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361413

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330143

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85  
all docs

85  
docs citations

85  
times ranked

1635  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective absorption coefficient and effective thickness in attenuated total reflection spectroscopy. Optics Letters, 2021, 46, 872.	3.3	8
2	Optical Chirality Determined from Mueller Matrices. Applied Sciences (Switzerland), 2021, 11, 6742.	2.5	14
3	Quantification of Optical Chirality in Cellulose Nanocrystal Films Prepared by Shear-Coating. Applied Sciences (Switzerland), 2021, 11, 6191.	2.5	12
4	Shear-Coated Linear Birefringent and Chiral Cellulose Nanocrystal Films Prepared from Non-Sonicated Suspensions with Different Storage Time. Nanomaterials, 2021, 11, 2239.	4.1	13
5	Glancing Angle Deposition and Growth Mechanism of Inclined AlN Nanostructures Using Reactive Magnetron Sputtering. Coatings, 2020, 10, 768.	2.6	19
6	Effective structural chirality of beetle cuticle determined from transmission Mueller matrices using the Tellegen constitutive relations. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, .	1.2	3
7	Transmission Mueller-matrix characterization of transparent ramie films. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, .	1.2	5
8	Graded circular Bragg reflectors: a semi-analytical retrieval of approximate pitch profiles from Mueller-matrix data. Journal of Optics (United Kingdom), 2019, 21, 125401.	2.2	5
9	Mueller-matrix modeling of the architecture in the cuticle of the beetle <i>Chrysina resplendens</i> . Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, .	1.2	7
10	Linear Birefringent Films of Cellulose Nanocrystals Produced by Dip-Coating. Nanomaterials, 2019, 9, 45.	4.1	24
11	Mueller matrix spectroscopic ellipsometry study of chiral nanocrystalline cellulose films. Journal of Optics (United Kingdom), 2018, 20, 024001.	2.2	31
12	Pitch profile across the cuticle of the scarab beetle <i>Cotinis mutabilis</i> determined by analysis of Mueller matrix measurements. Royal Society Open Science, 2018, 5, 181096.	2.4	8
13	Experimental degradation of helicoidal photonic nanostructures in scarab beetles (Coleoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Journal of the Royal Society Interface, 2018, 15, 20180560.	3.4	6
14	Influence of InAlN Nanospiral Structures on the Behavior of Reflected Light Polarization. Nanomaterials, 2018, 8, 157.	4.1	3
15	Graded pitch profile for the helicoidal broadband reflector and left-handed circularly polarizing cuticle of the scarab beetle <i>Chrysina chrysgyrea</i> . Scientific Reports, 2018, 8, 6456.	3.3	17
16	Polarizing Natural Nanostructures. Springer Series in Surface Sciences, 2018, , 247-268.	0.3	2
17	Neutral shielding and cloaking of magnetic fields using isotropic media. Journal of Physics Condensed Matter, 2017, 29, 035801.	1.8	3
18	Neutral inclusions for diffusive acoustic fields. Journal of Sound and Vibration, 2017, 395, 80-89.	3.9	0

#	ARTICLE	IF	CITATIONS
19	Exposing different in-depth pitches in the cuticle of the scarab beetle <i>Cotinis mutabilis</i> . <i>Materials Today: Proceedings</i> , 2017, 4, 4969-4978.	1.8	3
20	On the polarization of light reflected from beetle cuticle. <i>Materials Today: Proceedings</i> , 2017, 4, 4933-4941.	1.8	2
21	Bragg reflection from periodic helicoidal media with laterally graded refractive index. <i>Optical Materials</i> , 2017, 72, 334-340.	3.6	1
22	Modeling of light interaction with exoskeletons of scarab beetles. <i>Applied Optics</i> , 2017, 56, 2510.	2.1	3
23	Birefringence of nanocrystalline chitin films studied by Mueller-matrix spectroscopic ellipsometry. <i>Optical Materials Express</i> , 2016, 6, 671.	3.0	10
24	Sum regression decomposition of spectral and angle-resolved Mueller matrices from biological reflectors. <i>Applied Optics</i> , 2016, 55, 4060.	2.1	8
25	Polarizing properties and structure of the cuticle of scarab beetles from the <i>Chrysinagenus</i> . <i>Physical Review E</i> , 2016, 94, 012409.	2.1	19
26	Structural circular birefringence and dichroism quantified by differential decomposition of spectroscopic transmission Mueller matrices from <i>Cetonia aurata</i> . <i>Optics Letters</i> , 2016, 41, 3293.	3.3	23
27	Simulation of light scattering from exoskeletons of scarab beetles. <i>Optics Express</i> , 2016, 24, 5794.	3.4	3
28	In <sub>x</sub> Al <sub>1-x</sub> N chiral nanorods mimicking the polarization features of scarab beetles. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
29	Exploring polarization features in light reflection from beetles with structural colors. , 2015, , .		0
30	Scattering and polarization properties of the scarab beetle <i>Cyphochilus insulanus</i> cuticle. <i>Applied Optics</i> , 2015, 54, 6037.	2.1	15
31	Sum decomposition of Mueller-matrix images and spectra of beetle cuticles. <i>Optics Express</i> , 2015, 23, 1951.	3.4	18
32	Curved-Lattice Epitaxial Growth of In <sub>x</sub> Al <sub>1-x</sub> N Nanospirals with Tailored Chirality. <i>Nano Letters</i> , 2015, 15, 294-300.	9.1	19
33	Polarization of Light Reflected from <i>Chrysin Gloriosa</i> Under Various Illuminations. <i>Materials Today: Proceedings</i> , 2014, 1, 172-176.	1.8	3
34	Exploring Optics of Beetle Cuticles with Mueller-matrix Ellipsometry. <i>Materials Today: Proceedings</i> , 2014, 1, 155-160.	1.8	5
35	Evidence for a dispersion relation of optical modes in the cuticle of the scarab beetle <i>Cotinis mutabilis</i> . <i>Optical Materials Express</i> , 2014, 4, 2484.	3.0	17
36	Optical Mueller matrix modeling of chiral Al <sub>x</sub> In <sub>1-x</sub> N nanospirals. <i>Thin Solid Films</i> , 2014, 571, 447-452.	1.8	7

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37	Symmetries and relationships between elements of the Mueller matrix spectra of the cuticle of the beetle <i>Cotinis mutabilis</i> . <i>Thin Solid Films</i> , 2014, 571, 660-665.	1.8	16
38	Comparison and analysis of Mueller-matrix spectra from exoskeletons of blue, green and red <i>Cetonia aurata</i> . <i>Thin Solid Films</i> , 2014, 571, 739-743.	1.8	16
39	Polarizing properties and structural characteristics of the cuticle of the scarab Beetle <i>Chrysina gloriosa</i> . <i>Thin Solid Films</i> , 2014, 571, 410-415.	1.8	40
40	Polarizing Natural Nanostructures. <i>Springer Series in Surface Sciences</i> , 2014, , 155-169.	0.3	1
41	Chiral nanostructures producing near circular polarization. <i>Optical Materials Express</i> , 2014, 4, 1389.	3.0	5
42	Cuticle structure of the scarab beetle <i>Cetonia aurata</i> analyzed by regression analysis of Mueller-matrix ellipsometric data. <i>Optics Express</i> , 2013, 21, 22645.	3.4	47
43	Fano interference in supported gold nanosandwiches with weakly coupled nanodisks. <i>Optics Express</i> , 2012, 20, 29646.	3.4	4
44	Chirality-induced polarization effects in the cuticle of scarab beetles: 100 years after Michelson. <i>Philosophical Magazine</i> , 2012, 92, 1583-1599.	1.6	80
45	Spectroscopic ellipsometry study on the dielectric function of bulk $\text{Ti}_2\text{AlN}$ , $\text{Ti}_2\text{AlC}$ , $\text{Nb}_2\text{AlC}$ , $(\text{Ti}_{0.5}\text{Nb}_{0.5})_2\text{AlC}$ , and $\text{Ti}_3\text{GeC}_2$ MAX-phases. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	13
46	Optical response of supported gold nanodisks. <i>Optics Express</i> , 2011, 19, 12093.	3.4	30
47	Optical properties and switching of a Rose Bengal derivative: A spectroscopic ellipsometry study. <i>Thin Solid Films</i> , 2011, 519, 3582-3586.	1.8	17
48	Mueller-matrix ellipsometry studies of optically active structures in scarab beetles. <i>EPJ Web of Conferences</i> , 2010, 5, 03005.	0.3	1
49	Spectroscopic ellipsometry analysis of silicon nanotips obtained by electron cyclotron resonance plasma etching. <i>Applied Optics</i> , 2009, 48, 4996.	2.1	4
50	Spectroscopic ellipsometry and vector network analysis for determination of the electromagnetic response in two wavelength regions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 1089-1092.	0.8	3
51	A FEM-based application for numerical calculations of ellipsometric data. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 945-948.	1.8	3
52	Infrared to vacuum ultraviolet optical properties of 3C, 4H and 6H silicon carbide measured by spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2004, 455-456, 235-238.	1.8	4
53	Improvement of porous silicon based gas sensors by polymer modification. <i>Physica Status Solidi A</i> , 2003, 197, 378-381.	1.7	23
54	Spectroscopy studies of 4H-SiC. <i>Materials Research</i> , 2003, 6, 43-45.	1.3	0

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55	Optical properties of 4H-SiC. Journal of Applied Physics, 2002, 91, 2099-2103.	2.5	20
56	Electrical peculiarities in Al/Si/Ge/Ge/Si and Al/SiGe/Si structures. Applied Surface Science, 2002, 190, 403-407.	6.1	10
57	Electronic structure of ScN determined using optical spectroscopy, photoemission, and ab initio calculations. Physical Review B, 2001, 63, .	3.2	139
58	Electrical and optical properties of sputter deposited tin doped indium oxide thin films with silver additive. Thin Solid Films, 2001, 392, 305-310.	1.8	24
59	Optical properties of intrinsic and doped a-Si:H films grown by d.c. magnetron sputter deposition. Thin Solid Films, 2001, 394, 255-262.	1.8	8
60	Er/O doped Si <sub>1-x</sub> Ge <sub>x</sub> alloy layers grown by MBE. Optical Materials, 2001, 17, 131-134.	3.6	2
61	Ordinary and extraordinary dielectric functions of 4H- and 6H-SiC from 3.5 to 9.0 eV. Applied Physics Letters, 2001, 78, 2715-2717.	3.3	25
62	Electrical and optical properties of CN <sub>x</sub> (0.5 ≤ x ≤ 0.25) films deposited by reactive magnetron sputtering. Journal of Applied Physics, 2001, 89, 1184-1190.	2.5	58
63	Characterization of 3C-SiC by Spectroscopic Ellipsometry. Physica Status Solidi (B): Basic Research, 2000, 218, r1-r2.	1.5	8
64	Optical Characterization Of Industrially Sputtered Nickel-Nickel Oxide Solar Selective Surface. Solar Energy, 2000, 68, 325-328.	6.1	50
65	Enhanced quality of epitaxial AlN thin films on 6H-SiC by ultra-high-vacuum ion-assisted reactive dc magnetron sputter deposition. Applied Physics Letters, 2000, 76, 170-172.	3.3	27
66	Ion implanted dopants in GaN and AlN: Lattice sites, annealing behavior, and defect recovery. Journal of Applied Physics, 2000, 87, 2149-2157.	2.5	52
67	Real-time assessment of selected surface preparation regimens for 4H-SiC surfaces using spectroscopic ellipsometry. Surface Science, 2000, 464, L703-L707.	1.9	11
68	Multiple sample analysis of spectroscopic ellipsometry data of semi-transparent films. Thin Solid Films, 1998, 313-314, 114-118.	1.8	56
69	Growth of highly (0001)-oriented aluminum nitride thin films with smooth surfaces on silicon carbide by gas-source molecular beam epitaxy. Vacuum, 1998, 49, 189-191.	3.5	4
70	Chapter 1 Materials Properties and Characterization of SiC. Semiconductors and Semimetals, 1998, , 1-20.	0.7	32
71	Microstructure evolution in amorphous Ge/Si multilayers grown by magnetron sputter deposition. Journal of Materials Research, 1997, 12, 1806-1815.	2.6	14
72	Annealing induced interdiffusion and crystallization in sputtered amorphous Si/Ge multilayers. Journal of Materials Research, 1997, 12, 2255-2261.	2.6	12

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73	Growth and doping via gas-source molecular beam epitaxy of SiC and heterostructures and their microstructural and electrical characterization. <i>Diamond and Related Materials</i> , 1997, 6, 1282-1288.	3.9	3
74	Homoepitaxial SiC Growth by Molecular Beam Epitaxy. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 202, 379-404.	1.5	17
75	Compositional information from amorphous Si-Ge multilayers using high-resolution electron microscopy imaging and direct digital recording. <i>Ultramicroscopy</i> , 1996, 66, 221-235.	1.9	5
76	X-ray diffraction from amorphous Ge/Si Cantor superlattices. <i>Physical Review B</i> , 1995, 51, 7621-7631.	3.2	16
77	Study of ion mixing during Auger depth profiling of Ge/Si multilayer system. II. Low ion energy (0.2 eV) Tj ETQq1 1 0.784314 rgBT 1999-2004.	2.1	15
78	A spectroscopic ellipsometry study of cerium dioxide thin films grown on sapphire by rf magnetron sputtering. <i>Journal of Applied Physics</i> , 1995, 77, 5369-5376.	2.5	186
79	Growth of epitaxial AlN(0001) on Si(111) by reactive magnetron sputter deposition. <i>Journal of Applied Physics</i> , 1995, 78, 5721-5726.	2.5	64
80	Optical properties and crystallization of amorphous Si:Sb alloy thin films. <i>Journal of Applied Physics</i> , 1994, 75, 507-513.	2.5	7
81	Growth and ellipsometric studies of periodic and cantor aperiodic amorphous Ge/Si superlattices. <i>Thin Solid Films</i> , 1994, 240, 7-13.	1.8	5
82	An X-ray study of generalized Cantor superlattices. <i>Thin Solid Films</i> , 1994, 246, 120-125.	1.8	4
83	A quasi three-dimensional optical memory with n-bit memory cells based on the ellipsometric principle: concept and prototype devices. <i>Optics Communications</i> , 1994, 104, 277-279.	2.1	5
84	Low energy ion mixing in Si-Ge multilayer system. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1994, 85, 383-387.	1.4	7
85	Optical constants and Drude analysis of sputtered zirconium nitride films. <i>Applied Optics</i> , 1994, 33, 1993.	2.1	54