Steven E Kooi

List of Publications by Year in descending order

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57 papers	3,058 citations	172457 29 h-index	155660 55 g-index
60 all docs	60 docs citations	60 times ranked	3840 citing authors

#	Article	IF	Citations
1	Multi-Emissive Difluoroboron Dibenzoylmethane Polylactide Exhibiting Intense Fluorescence and Oxygen-Sensitive Room-Temperature Phosphorescence. Journal of the American Chemical Society, 2007, 129, 8942-8943.	13.7	527
2	Solubilization of Single-Wall Carbon Nanotubes by Supramolecular Encapsulation of Helical Amylose. Journal of the American Chemical Society, 2003, 125, 4426-4427.	13.7	280
3	Electrochemical Modification of Single Carbon Nanotubes. Angewandte Chemie - International Edition, 2002, 41, 1353-1355.	13.8	149
4	Highly Emissive Conjugated Polymer Excimers. Journal of the American Chemical Society, 2005, 127, 13726-13731.	13.7	121
5	Reversible solid-state mechanochromic fluorescence from a boron lipid dye. Journal of Materials Chemistry, 2011, 21, 8295.	6.7	121
6	Thermal Fluorination and Annealing of Single-Wall Carbon Nanotubes. Journal of Physical Chemistry B, 2003, 107, 5690-5695.	2.6	115
7	Emission Color Tuning with Polymer Molecular Weight for Difluoroboron Dibenzoylmethaneâ€Polylactide. Advanced Materials, 2008, 20, 2099-2104.	21.0	111
8	Maximal spontaneous photon emission and energy loss from free electrons. Nature Physics, 2018, 14, 894-899.	16.7	100
9	The Role of the Interface in CO Oxidation on Au/CeO₂ Multilayer Nanotowers. Advanced Functional Materials, 2008, 18, 2801-2807.	14.9	91
10	Vapor Deposition of Hybrid Organicâ€“Inorganic Dielectric Bragg Mirrors having Rapid and Reversibly Tunable Optical Reflectance. Chemistry of Materials, 2008, 20, 2262-2267.	6.7	85
11	Defect-mode mirrorless lasing in dye-doped organic/inorganic hybrid one-dimensional photonic crystal. Applied Physics Letters, 2006, 88, 091102.	3.3	71
12	Enhanced Energy Dissipation in Periodic Epoxy Nanoframes. Nano Letters, 2010, 10, 2592-2597.	9.1	68
13	Dynamics of supersonic microparticle impact on elastomers revealed by realâ€“time multiâ€“frame imaging. Scientific Reports, 2016, 6, 25577.	3.3	68
14	Assembly of a Bacteriophageâ€Based Template for the Organization of Materials into Nanoporous Networks. Advanced Materials, 2014, 26, 3398-3404.	21.0	63
15	A framework for scintillation in nanophotonics. Science, 2022, 375, eabm9293.	12.6	59
16	Extreme Energy Absorption in Glassy Polymer Thin Films by Supersonic Micro-projectile Impact. Materials Today, 2018, 21, 817-824.	14.2	55
17	Towards integrated tunable all-silicon free-electron light sources. Nature Communications, 2019, 10, 3176.	12.8	55
18	Enhanced Luminescence from Emissive Defects in Aggregated Conjugated Polymers. Macromolecules, 2007, 40, 8833-8841.	4.8	48

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19	Highly Emissive Iptyceneâ^'Fluorene Conjugated Copolymers: Synthesis and Photophysical Properties. Macromolecules, 2008, 41, 6672-6676.	4.8	46
20	Directâ€Write Thermocapillary Dewetting of Polymer Thin Films by a Laserâ€Induced Thermal Gradient. Advanced Materials, 2013, 25, 6100-6105.	21.0	46
21	Smithâ€“Purcell Radiation from Low-Energy Electrons. ACS Photonics, 2018, 5, 3513-3518.	6.6	46
22	High-velocity micro-projectile impact testing. Applied Physics Reviews, 2021, 8, .	11.3	46
23	Alignment and reordering of a block copolymer by solvent-enhanced thermal laser direct write. Polymer, 2014, 55, 1875-1882.	3.8	45
24	Dynamics and extreme plasticity of metallic microparticles in supersonic collisions. Scientific Reports, 2017, 7, 5073.	3.3	44
25	Shape Control of Multivalent 3D Colloidal Particles via Interference Lithography. Nano Letters, 2007, 7, 647-651.	9.1	41
26	Molecular influence in high-strain-rate microparticle impact response of poly(urethane urea) elastomers. Polymer, 2017, 123, 30-38.	3.8	37
27	Highly Effective Water-Soluble Fluorescence Quenchers of Conjugated Polymer Thin Films in Aqueous Environments. Macromolecules, 2006, 39, 7175-7177.	4.8	31
28	High-velocity micro-particle impact on gelatin and synthetic hydrogel. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 71-76.	3.1	31
29	Interferometric analysis of laser-driven cylindrically focusing shock waves in a thin liquid layer. Scientific Reports, 2016, 6, 24.	3.3	30
30	Dynamic Strengthening of Carbon Nanotube Fibers under Extreme Mechanical Impulses. Nano Letters, 2019, 19, 3519-3526.	9.1	30
31	Focused laserâ€induced marangoni dewetting for patterning polymer thin films. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 225-236.	2.1	28
32	Molecular dependencies of dynamic stiffening and strengthening through high strain rate microparticle impact of polyurethane and polyurea elastomers. Applied Physics Letters, 2019, 115, .	3.3	27
33	Unraveling the high strain-rate dynamic stiffening in select model polyurethanes â^' the role of intermolecular hydrogen bonding. Polymer, 2019, 168, 218-227.	3.8	24
34	Elektrochemische Modifizierung einzelner Kohlenstoff-NanorÃ¶hren Diese Arbeit wurde von der EuropÃischen Union (Projektnummer HPRN-CT-1999-00011) unterstÃ¼tzt. Die Autoren danken B. Siegle, Max-Planck-Institut fÃ¼r Metallforschung, Stuttgart, fÃ¼r die UnterstÃ¼tzung bei der Aufnahme der Auger-Spektren.. Angewandte Chemie, 2002, 114, 1409.	2.0	22
35	Photoluminescent energy transfer from poly(phenyleneethynylene)s to nearâ€infrared emitting fluorophores. Journal of Polymer Science Part A, 2010, 48, 3382-3391.	2.3	21
36	Anionic Oxidative Polymerization: The Synthesis of Poly(phenylenedicyanovinylene) (PPCN2V). Journal of the American Chemical Society, 2009, 131, 20-21.	13.7	20

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37	Focused laser spike (FLaSk) annealing of photoactivated chemically amplified resists for rapid hierarchical patterning. Nanoscale, 2011, 3, 2730.	5.6	20
38	Impact-induced glass-to-rubber transition of polyurea under high-velocity temperature-controlled microparticle impact. Applied Physics Letters, 2020, 117, .	3.3	18
39	Molecular influence in the glass/polymer interface design: The role of segmental dynamics. Polymer, 2018, 146, 222-229.	3.8	17
40	Laser-driven high-velocity microparticle launcher in atmosphere and under vacuum. International Journal of Impact Engineering, 2020, 137, 103465.	5.0	16
41	Bottom-up design toward dynamically robust polyurethane elastomers. Polymer, 2021, 218, 123518.	3.8	15
42	Constructing Multifunctional Virus-Templated Nanoporous Composites for Thin Film Solar Cells: Contributions of Morphology and Optics to Photocurrent Generation. Journal of Physical Chemistry C, 2015, , 150610114441003.	3.1	14
43	Synthesis of Stair-Stepped Polymers Containing Dibenz[a,h]anthracene Subunits. Macromolecules, 2010, 43, 2789-2793.	4.8	13
44	Acoustical breakdown of materials by focusing of laser-generated Rayleigh surface waves. Applied Physics Letters, 2017, 111, .	3.3	12
45	Glass fracture by focusing of laser-generated nanosecond surface acoustic waves. Scripta Materialia, 2019, 158, 42-45.	5.2	10
46	Birefringence Control of Semicrystalline Block Copolymers by Crystallization under Confinement. Langmuir, 2010, 26, 17640-17648.	3.5	9
47	Rapid fabrication of 3D terahertz split ring resonator arrays by novel single-shot direct write focused proximity field nanopatterning. Optics Express, 2012, 20, 11097.	3.4	8
48	Energy Disposal in the Photodissociation of Co(CO)3NO near 225 nm. Journal of Physical Chemistry A, 1998, 102, 10697-10702.	2.5	7
49	Single-Shot Multi-Frame Imaging of Cylindrical Shock Waves in a Multi-Layered Assembly. Scientific Reports, 2019, 9, 3689.	3.3	7
50	Interferometric and fluorescence analysis of shock wave effects on cell membrane. Communications Physics, 2020, 3, .	5.3	7
51	Interface-by-design in zirconia-polyurea matrix hybrid composites. Polymer, 2020, 209, 122939.	3.8	6
52	Multi-frame interferometric imaging with a femtosecond stroboscopic pulse train for observing irreversible phenomena. Review of Scientific Instruments, 2020, 91, 033711.	1.3	5
53	High-order Smith-Purcell radiation in Silicon Nanowires. , 2017, , .		3
54	Interferometric analysis of cylindrically focused laser-driven shock waves in a thin liquid layer. , 2012, , .		2

#	Article	IF	Citations
55	Modeling the Particle Capture Performance by Vertically Aligned Carbon Nanotubes for a Comet Rendezvous Sample Return. Advances in Space Research, 2021, , .	2.6	1
56	Nanoporous Networks: Assembly of a Bacteriophage-Based Template for the Organization of Materials into Nanoporous Networks (Adv. Mater. 21/2014). Advanced Materials, 2014, 26, 3568-3568.	21.0	0
57	Smith-Purcell radiation from low-energy electrons. , 2017, , .		0