

Sheng Huang

List of Publications by Year in descending order

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43
papers

2,140
citations

471509

17
h-index

526287

27
g-index

44
all docs

44
docs citations

44
times ranked

2105
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological protection of photonic mid-gap defect modes. <i>Nature Photonics</i> , 2018, 12, 408-415.	31.4	418
2	Photonic topological boundary pumping as a probe of 4D quantum Hall physics. <i>Nature</i> , 2018, 553, 59-62.	27.8	335
3	Observation of Photonic Topological Valley Hall Edge States. <i>Physical Review Letters</i> , 2018, 120, 063902.	7.8	274
4	Experimental realization of a Weyl exceptional ring. <i>Nature Photonics</i> , 2019, 13, 623-628.	31.4	234
5	Experimental observation of optical Weyl points and Fermi arc-like surface states. <i>Nature Physics</i> , 2017, 13, 611-617.	16.7	226
6	Distributed Optical Fiber Sensors with Ultrafast Laser Enhanced Rayleigh Backscattering Profiles for Real-Time Monitoring of Solid Oxide Fuel Cell Operations. <i>Scientific Reports</i> , 2017, 7, 9360.	3.3	84
7	Optical Watermarking for Printed Document Authentication. <i>IEEE Transactions on Information Forensics and Security</i> , 2007, 2, 164-173.	6.9	74
8	Distributed fiber sensor and machine learning data analytics for pipeline protection against extrinsic intrusions and intrinsic corruptions. <i>Optics Express</i> , 2020, 28, 27277.	3.4	56
9	Thouless pumping in disordered photonic systems. <i>Light: Science and Applications</i> , 2020, 9, 178.	16.6	53
10	Braiding photonic topological zero modes. <i>Nature Physics</i> , 2020, 16, 989-993.	16.7	51
11	Radiation resistant fiber Bragg grating in random air-line fibers for sensing applications in nuclear reactor cores. <i>Optics Express</i> , 2018, 26, 11775.	3.4	40
12	Multiplexable intrinsic Fabry-Perot interferometric fiber sensors for multipoint hydrogen gas monitoring. <i>Optics Letters</i> , 2020, 45, 3163.	3.3	39
13	Multiplexable high-temperature stable and low-loss intrinsic Fabry-Perot in-fiber sensors through nanograting engineering. <i>Optics Express</i> , 2020, 28, 20225.	3.4	32
14	Flexible photonic components in glass substrates. <i>Optics Express</i> , 2015, 23, 22532.	3.4	29
15	Femtosecond laser fabrication of nanograting-based distributed fiber sensors for extreme environmental applications. <i>International Journal of Extreme Manufacturing</i> , 2021, 3, 025401.	12.7	27
16	Identifications and classifications of human locomotion using Rayleigh-enhanced distributed fiber acoustic sensors with deep neural networks. <i>Scientific Reports</i> , 2020, 10, 21014.	3.3	25
17	Fabrication of Fiber Bragg Grating Coating with TiO ₂ Nanostructured Metal Oxide for Refractive Index Sensor. <i>Journal of Nanotechnology</i> , 2017, 2017, 1-9.	3.4	18
18	Higher-order topological pumping and its observation in photonic lattices. <i>Physical Review B</i> , 2022, 105, .	3.2	18

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19	Distributed Fiber Sensors With High Spatial Resolution in Extreme Radiation Environments in Nuclear Reactor Cores. Journal of Lightwave Technology, 2021, 39, 4873-4883.	4.6	17
20	Ultrafast laser fabrication of Bragg waveguides in chalcogenide glass. Optics Letters, 2014, 39, 3579.	3.3	16
21	A compact field-portable double-pulse laser system to enhance laser induced breakdown spectroscopy. Review of Scientific Instruments, 2017, 88, 023109.	1.3	16
22	Nonlinear lightwave circuits in chalcogenide glasses fabricated by ultrafast laser. Optics Letters, 2014, 39, 693.	3.3	12
23	Photonic realization of a transition to a strongly driven Floquet topological phase. Physical Review A, 2018, 97, .	2.5	12
24	Reel-to-Reel Fabrication of In-Fiber Low-Loss and High-Temperature Stable Rayleigh Scattering Centers for Distributed Sensing. IEEE Sensors Journal, 2020, 20, 11335-11341.	4.7	12
25	Spatially resolved fibre cavity ring down spectroscopy. Scientific Reports, 2020, 10, 20167.	3.3	5
26	The suppression of the orbit-induced Peierls state by Co ions in the system. Journal of Magnetism and Magnetic Materials, 2009, 321, 4092-4096.	2.3	4
27	High spatial resolution fiber optical sensors for simultaneous temperature and chemical sensing for energy industries. , 2017, , .		3
28	Observation of Photonic Topological Valley Transport. , 2017, , .		3
29	Ultrafast Laser Fabrication of 3D Photonic Components in Flexible Glasses. , 2014, , .		1
30	Nonlinear optical localization in embedded chalcogenide waveguide arrays. AIP Advances, 2014, 4, .	1.3	1
31	Board-Level Optical Interconnect Using Glass. , 2015, , .		1
32	Adaptive laser beam forming for laser shock micro-forming for 3D MEMS devices fabrication. , 2016, , .		1
33	Distributed High-Temperature Sensing with Rayleigh Scattering Based In-Line Fabry-Perot Interferometers. , 2019, , .		1
34	Active Optical Fiber Sensors Enabled By Femtosecond Laser Induced Nano-Scattering Centers. , 2021, , .		1
35	Fabrication of Lightwave Circuits on Flat Fibers: System-in-Fiber. , 2017, , .		1
36	Three Dimensional Beam Splitter in Silica Substrate based on Orthogonal Cascaded Y-branch couplers. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Prediction and Realization of a Photonic Topological Phase Transition. , 2017, , .		0
38	Experimental observation of optical Weyl points and Fermi arcs. , 2017, , .		0
39	Early-stage Plasma Spectra Improvement Using a Field-portable Double-pulse Laser System. , 2017, , .		0
40	Probing Temperature Gradient inside SOFC using Fiber with Enhanced Rayleigh Scattering Profiles. , 2017, , .		0
41	Intrinsic Fabry-Perot Interferometer Fiber Sensor by Femtosecond Laser Induced Rayleigh Backscattering Enhancement. , 2019, , .		0
42	Roll-to-Roll Femtosecond Laser Inscription of In-fiber Rayleigh Scattering Centers for Improved Distributed Temperature Sensing Performance. , 2021, , .		0
43	Multiplexed Active Optical Fiber Bragg Grating Sensor Array Enabled by Femtosecond Laser Induced Nanoscattering Centers. , 2022, 6, 1-4.		0