

Raman Kashyap

List of Publications by Year in descending order

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88
papers

1,660
citations

304743

22
h-index

302126

39
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89
all docs

89
docs citations

89
times ranked

1705
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Improvement of Ultra-Short Distributed Feedback Fiber Lasers by Engineering of Coupling Coefficient Profiles. IEEE Journal of Quantum Electronics, 2022, 58, 1-7.	1.9	1
2	Intensity $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle mml:msup>\langle mml:mi>g\langle /mml:mi>\langle mml:mrow>\langle mml:mo>\langle /mml:mo>\langle mml:mo>\langle /mml:mo>\langle mml:mi>g\langle /mml:mi>\langle /mml:mrow>\langle /mml:math\rangle$ correlations in random fiber lasers: A random-matrix-theory approach. Physical Review A, 2022, 105, .		
3	Photonics bridges between turbulence and spin glass phenomena in the 2021 Nobel Prize in Physics. Light: Science and Applications, 2022, 11, 104.	16.6	3
4	Multimodal Sensing Guidewire for Arm Navigation with Random UV Enhanced Optical Sensors Using Spatio-Temporal Networks. Lecture Notes in Computer Science, 2021, , 249-258.	1.3	2
5	A simple high-speed random number generator with minimal post-processing using a random Raman fiber laser. Scientific Reports, 2021, 11, 13182.	3.3	18
6	Structural and optical properties of Nd:YAB-nanoparticle-doped PDMS elastomers for random lasers. Scientific Reports, 2021, 11, 16803.	3.3	1
7	High-Resolution Optical Fiber Shape Sensing of Continuum Robots: A Comparative Study. , 2020, 2020, .		25
8	Gratings with longitudinal variations in coupling coefficients: super-efficiency and unidirectionality in distributed feedback Raman fiber lasers. New Journal of Physics, 2020, 22, 103022.	2.9	4
9	Hyper-Entanglement in Time and Frequency. , 2019, , .		0
10	Power Fluctuations and Random Lasing in Multiwavelength Brillouin Erbium-Doped Fiber Lasers. Journal of Lightwave Technology, 2019, 37, 4439-4444.	4.6	12
11	Evidence of a Floquet Phase in a Photonic System. Physical Review Letters, 2019, 122, 143903.	7.8	14
12	Kerr Combs and Telecommunications Components for the Generation and High-Dimensional Quantum Processing of d-Level Cluster States. , 2019, , .		0
13	Intra-Arterial Image Guidance With Optical Frequency Domain Reflectometry Shape Sensing. IEEE Transactions on Medical Imaging, 2019, 38, 482-492.	8.9	38
14	High-dimensional one-way quantum processing implemented on d-level cluster states. Nature Physics, 2019, 15, 148-153.	16.7	204
15	Theoretical investigations of power fluctuations statistics in Brillouin erbium-doped fiber lasers. Optics Express, 2019, 27, 37508.	3.4	9
16	Self-Referenced Broad-Range Optical Rotation Sensor for Flight Control Applications. Journal of Lightwave Technology, 2018, 36, 2000-2009.	4.6	6
17	Engineered $\langle \text{inline-formula} \rangle \langle \text{tex-math notation="LaTeX"} \rangle \langle \pi \rangle \langle /text-math \rangle \langle \text{inline-formula} \rangle$ -Phase-Shifted Fiber Bragg Gratings for Efficient Distributed Feedback Raman Fiber Lasers. IEEE Journal of Quantum Electronics, 2018, 54, 1-7.	1.9	6
18	Smart Integrated Optical Rotation Sensor Incorporating a Fly-by-Wire Control System. IEEE Transactions on Industrial Electronics, 2018, 65, 6505-6514.	7.9	8

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19	Photonic properties of novel Yb ³⁺ doped germanium-lead oxyfluoride glass-ceramics for laser cooling applications. <i>Frontiers of Optoelectronics</i> , 2018, 11, 189-198.	3.7	8
20	Realization and optimization of phase-shifted distributed feedback fiber Bragg grating Raman lasers. <i>Optica</i> , 2018, 5, 295.	9.3	23
21	Measurements of DIII-D poloidal field by fiber-optic pulsed polarimetry. <i>Review of Scientific Instruments</i> , 2018, 89, 10J102.	1.3	2
22	Turbulence hierarchy in a random fibre laser. <i>Nature Communications</i> , 2017, 8, 15731.	12.8	59
23	Assessment of the Accuracy of Optical Shape Sensing for Needle Tracking Interventions. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2017, 11, .	0.7	0
24	Extreme-value statistics of intensities in a cw-pumped random fiber laser. <i>Physical Review A</i> , 2017, 96, .	2.5	35
25	A simple technique to overcome self-focusing, filamentation, supercontinuum generation, aberrations, depth dependence and waveguide interface roughness using fs laser processing. <i>Scientific Reports</i> , 2017, 7, 499.	3.3	21
26	Super-tunable, broadband up-conversion of a high-power CW laser in an engineered nonlinear crystal. <i>Scientific Reports</i> , 2017, 7, 883.	3.3	17
27	Distributed temperature and strain sensing with high order stimulated Brillouin scattering. , 2017, , .		0
28	Enhancement of accuracy in shape sensing of surgical needles using optical frequency domain reflectometry in optical fibers. <i>Biomedical Optics Express</i> , 2017, 8, 2210.	2.9	102
29	High sensitivity distributed temperature fiber sensor using stimulated Brillouin scattering. <i>Optics Express</i> , 2017, 25, 32591.	3.4	28
30	Single-frequency low-threshold linearly polarized DFB Raman fiber lasers. <i>Optics Letters</i> , 2017, 42, 3864.	3.3	26
31	Parameter optimisation of pi-shifted distributed feedback fiber Bragg grating Raman lasers. , 2017, , .		0
32	Increasing the numerical aperture of waveguides in Gorilla glass [®] for smartphone applications. , 2017, , .		0
33	Observation of Lévy statistics in one-dimensional erbium-based random fiber laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 293.	2.1	53
34	Silica Bottle Resonator Sensor for Refractive Index and Temperature Measurements. <i>Sensors</i> , 2016, 16, 87.	3.8	14
35	Optical sensors for fly-by-light flight control systems. , 2016, , .		1
36	Vessel-based registration of an optical shape sensing catheter for MR navigation. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016, 11, 1025-1034.	2.8	14

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37	Glassy behavior in a one-dimensional continuous-wave erbium-doped random fiber laser. Physical Review A, 2016, 94, .	2.5	56
38	Novel Analog Ratio-Metric Optical Rotary Encoder for Avionic Applications. IEEE Sensors Journal, 2016, 16, 6586-6595.	4.7	28
39	Creation of backdoors in quantum communications via laser damage. Physical Review A, 2016, 94, .	2.5	53
40	Development of ytterbium-doped oxyfluoride glasses for laser cooling applications. Scientific Reports, 2016, 6, 21905.	3.3	76
41	Fly-by-wire flight control smart optical rotary sensor for aircraft. , 2016, , .		2
42	Temporal characterization of a multi-wavelength Brillouinâ€œerbium fiber laser. New Journal of Physics, 2016, 18, 055003.	2.9	23
43	An Ultra-Sensitive Liquid-Level Indicator Based on an Etched Chirped-Fiber Bragg Grating. IEEE Photonics Technology Letters, 2016, 28, 268-271.	2.5	47
44	Ultrahigh resolution distributed temperature and strain sensing in optical fibre with Rayleigh and Brillouin scattering. , 2015, , .		1
45	Direct laser-writing of ferroelectric single-crystal waveguide architectures in glass for 3D integrated optics. Scientific Reports, 2015, 5, 10391.	3.3	83
46	Ultra-Narrow Linewidth and Highly Stable Laser for Radio over Fiber Distributed Antenna Systems. , 2015, , .		0
47	Rayleigh scatter based order of magnitude increase in distributed temperature and strain sensing by simple UV exposure of optical fibre. Scientific Reports, 2015, 5, 11177.	3.3	127
48	Making smart phones smarter with photonics. Optics Express, 2014, 22, 15473.	3.4	74
49	Thin-disk athermal laser system. Optics Communications, 2014, 319, 100-105.	2.1	5
50	The Fiber Fuse - from a curious effect to a critical issue: A 25 th year retrospective. Optics Express, 2013, 21, 6422.	3.4	81
51	Demonstration of an ultra-high frequency picosecond pulse generator using an SBS frequency comb and self phase-locking. Optics Express, 2012, 20, 19455.	3.4	30
52	History and progress of the fiber fuse. , 2012, , .		0
53	Accurate in-situ gas temperature measurements in dielectric barrier discharges at atmospheric pressure. Applied Physics Letters, 2012, 100, .	3.3	21
54	In Situ Thermometry in Noble Gas Dielectric Barrier Discharges at Atmospheric Pressure. Plasma Processes and Polymers, 2012, 9, 955-967.	3.0	8

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55	Bandwidth Improvement in a Resonant Optical MST-Probe Applicable to Near-Field Imaging. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 411-414.	4.0	1
56	Alternative technique for laser cooling with superradiance. Physical Review A, 2011, 83, .	2.5	15
57	Integrated optical bio-sensor based on pure surface plasmon-polariton excited by a waveguide grating. , 2011, , .		0
58	Study of apodization of aperiodically poled lithium niobate (APPLN) for second harmonic generation (SHG). , 2011, , .		0
59	Optical fiber tissue elasticity sensor. , 2011, , .		0
60	Mid-IR fiber amplifier cooled with Yb ³⁺ ions. , 2011, , .		0
61	Sensing of laser cooling with optical fibres. , 2011, , .		1
62	A Technique to improve the dynamic range and linearity of a near-field imager based on the modulated scatterer approach. , 2009, , .		2
63	High-power fiber amplifier with laser cooled cladding. , 2009, , .		0
64	Efficient broadband frequency conversion using engineered apodized $\chi^{(2)}$ gratings and fundamental harmonic resonance. , 2009, , .		0
65	Athermal continuous-wave fiber amplifier. Optics Communications, 2009, 282, 2571-2575.	2.1	18
66	Optical fibre musical instruments: making sense of the senseless. Journal of Materials Science: Materials in Electronics, 2009, 20, 170-174.	2.2	4
67	Novel long fiber Bragg grating fabrication technique based on push-pull phase-shifting interferometry. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S255.	0.8	0
68	LPG assisted high-power fiber amplifier with Er ³⁺ doped cladding. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S244-S247.	0.8	0
69	High efficiency solid state laser cooling in Yb ³⁺ :ZBLANP fiber with tilted fiber Bragg grating structures. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S248-S250.	0.8	2
70	Raman Fiber Amplifier With Integrated Cooler. Journal of Lightwave Technology, 2009, 27, 5597-5601.	4.6	13
71	Novel Fabrication of Fiber Bragg Gratings Using Silicone Rubber Phase-Mask Stamp on the Cladding. Journal of Lightwave Technology, 2009, 27, 5602-5606.	4.6	7
72	Fiber amplifier with integrated optical cooler. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2237.	2.1	18

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73	Design of Novel Unapodized and Apodized Step-Chirped Quasi-Phase Matched Gratings for Broadband Frequency Converters Based on Second-Harmonic Generation. Journal of Lightwave Technology, 2008, 26, 343-349.	4.6	49
74	Optimization of Yb ³⁺ :ZBLANP fiber structure for laser cooling. , 2008, , .		0
75	Improved Method for Two-dimensional Determination of the Magnitude and Orientation of Weak Birefringence. , 2007, , .		0
76	A Near-Field Measurement Setup Using an Array of Optically Modulated Scatterers. , 2007, , .		6
77	Optical Error Correction using Passive Optical Logic Gates Demodulators in Differential Demodulation. , 2007, , .		0
78	A Compact Integrated Planar-Waveguide Refractive-Index Sensor Based on a Corrugated Metal Grating. Journal of Lightwave Technology, 2007, 25, 2244-2250.	4.6	22
79	Low-Loss S-, C- and L-band Differential Phase Shift Keying Demodulator. , 2007, , .		2
80	Corrugated Metal Bragg Grating Assisted Integrated Planar Waveguide Surface Plasmon-Polariton Based Sensor. , 2007, , .		1
81	Novel fiber Bragg grating assisted plasmon-polariton for bio-medical refractive-index sensors. Journal of Materials Science: Materials in Electronics, 2007, 18, 327-330.	2.2	14
82	Fiber taper Mach-Zehnder modal interferometer for broadband low-cost DPSK demodulation and duobinary signal generation. , 2006, , .		1
83	Novel Modulation Capability of a Long Hybrid Semiconductor Fiber-grating Laser with an Intra-cavity Saturable Absorber. , 2006, , .		0
84	Single modulator payload/label encoding and node operations for optical label switching. IEEE Photonics Technology Letters, 2006, 18, 1140-1142.	2.5	1
85	Mode Locking and Electrical Tuning of a Hybrid Laser Source Using a Connectorized Ultra-Short Fiber Bragg Grating. Journal of Lightwave Technology, 2006, 24, 4380-4390.	4.6	3
86	Novel Single Mode Fiber Lens Coupler for Laser Diodes Based on Long Period Gratings in a Hybrid Graded-Index Multimode Fiber. , 2006, , .		0
87	Novel first and second order polarization mode dispersion emulator. , 2005, , .		4
88	True PMD emulation by the choice of free parameters in single polarization controller PMD emulator. , 0, , .		0