

# Raman Kashyap

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

1,660  
citations

304743

22  
h-index

302126

39  
g-index

89  
all docs

89  
docs citations

89  
times ranked

1705  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-dimensional one-way quantum processing implemented on d-level cluster states. Nature Physics, 2019, 15, 148-153.	16.7	204
2	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
3	Enhancement of accuracy in shape sensing of surgical needles using optical frequency domain reflectometry in optical fibers. Biomedical Optics Express, 2017, 8, 2210.	2.9	102
4	Direct laser-writing of ferroelectric single-crystal waveguide architectures in glass for 3D integrated optics. Scientific Reports, 2015, 5, 10391.	3.3	83
5	The Fiber Fuse - from a curious effect to a critical issue: A 25 <sup>th</sup> year retrospective. Optics Express, 2013, 21, 6422.	3.4	81
6	Development of ytterbium-doped oxyfluoride glasses for laser cooling applications. Scientific Reports, 2016, 6, 21905.	3.3	76
7	Making smart phones smarter with photonics. Optics Express, 2014, 22, 15473.	3.4	74
8	Turbulence hierarchy in a random fibre laser. Nature Communications, 2017, 8, 15731.	12.8	59
9	Glassy behavior in a one-dimensional continuous-wave erbium-doped random fiber laser. Physical Review A, 2016, 94, .	2.5	56
10	Creation of backdoors in quantum communications via laser damage. Physical Review A, 2016, 94, .	2.5	53
11	Observation of Lévy statistics in one-dimensional erbium-based random fiber laser. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 293.	2.1	53
12	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
13	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
14	Intra-Arterial Image Guidance With Optical Frequency Domain Reflectometry Shape Sensing. IEEE Transactions on Medical Imaging, 2019, 38, 482-492.	8.9	38
15	Extreme-value statistics of intensities in a cw-pumped random fiber laser. Physical Review A, 2017, 96, .	2.5	35
16	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
17	Novel Analog Ratio-Metric Optical Rotary Encoder for Avionic Applications. IEEE Sensors Journal, 2016, 16, 6586-6595.	4.7	28
18	High sensitivity distributed temperature fiber sensor using stimulated Brillouin scattering. Optics Express, 2017, 25, 32591.	3.4	28

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19	Single-frequency low-threshold linearly polarized DFB Raman fiber lasers. <i>Optics Letters</i> , 2017, 42, 3864.	3.3	26
20	High-Resolution Optical Fiber Shape Sensing of Continuum Robots: A Comparative Study. , 2020, 2020, .		25
21	Temporal characterization of a multi-wavelength Brillouinâ€“erbium fiber laser. <i>New Journal of Physics</i> , 2016, 18, 055003.	2.9	23
22	Realization and optimization of phase-shifted distributed feedback fiber Bragg grating Raman lasers. <i>Optica</i> , 2018, 5, 295.	9.3	23
23	A Compact Integrated Planar-Waveguide Refractive-Index Sensor Based on a Corrugated Metal Grating. <i>Journal of Lightwave Technology</i> , 2007, 25, 2244-2250.	4.6	22
24	Accurate in-situ gas temperature measurements in dielectric barrier discharges at atmospheric pressure. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	21
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	Athermal continuous-wave fiber amplifier. <i>Optics Communications</i> , 2009, 282, 2571-2575.	2.1	18
27	Fiber amplifier with integrated optical cooler. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 2237.	2.1	18
28	A simple high-speed random number generator with minimal post-processing using a random Raman fiber laser. <i>Scientific Reports</i> , 2021, 11, 13182.	3.3	18
29	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
30	Alternative technique for laser cooling with superradiance. <i>Physical Review A</i> , 2011, 83, .	2.5	15
31	Novel fiber Bragg grating assisted plasmon-polariton for bio-medical refractive-index sensors. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 327-330.	2.2	14
32	Silica Bottle Resonator Sensor for Refractive Index and Temperature Measurements. <i>Sensors</i> , 2016, 16, 87.	3.8	14
33	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
34	Evidence of a Floquet Phase in a Photonic System. <i>Physical Review Letters</i> , 2019, 122, 143903.	7.8	14
35	Raman Fiber Amplifier With Integrated Cooler. <i>Journal of Lightwave Technology</i> , 2009, 27, 5597-5601.	4.6	13
36	Power Fluctuations and Random Lasing in Multiwavelength Brillouin Erbium-Doped Fiber Lasers. <i>Journal of Lightwave Technology</i> , 2019, 37, 4439-4444.	4.6	12

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37	Theoretical investigations of power fluctuations statistics in Brillouin erbium-doped fiber lasers. Optics Express, 2019, 27, 37508.	3.4	9
38	In Situ Thermometry in Noble Gas Dielectric Barrier Discharges at Atmospheric Pressure. Plasma Processes and Polymers, 2012, 9, 955-967.	3.0	8
39	Smart Integrated Optical Rotation Sensor Incorporating a Fly-by-Wire Control System. IEEE Transactions on Industrial Electronics, 2018, 65, 6505-6514.	7.9	8
40	Photonic properties of novel Yb <sup>3+</sup> doped germanium-lead oxyfluoride glass-ceramics for laser cooling applications. Frontiers of Optoelectronics, 2018, 11, 189-198.	3.7	8
41	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
42	A Near-Field Measurement Setup Using an Array of Optically Modulated Scatterers. , 2007, , .		6
43	Self-Referenced Broad-Range Optical Rotation Sensor for Flight Control Applications. Journal of Lightwave Technology, 2018, 36, 2000-2009.	4.6	6
44	Engineered $\pi$ -Phase-Shifted Fiber Bragg Gratings for Efficient Distributed Feedback Raman Fiber Lasers. IEEE Journal of Quantum Electronics, 2018, 54, 1-7.	1.9	6
45	Thin-disk athermal laser system. Optics Communications, 2014, 319, 100-105.	2.1	5
46	Novel first and second order polarization mode dispersion emulator. , 2005, , .		4
47	Optical fibre musical instruments: making sense of the senseless. Journal of Materials Science: Materials in Electronics, 2009, 20, 170-174.	2.2	4
48	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
49	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
50	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
51	Low-Loss S-, C- and L-band Differential Phase Shift Keying Demodulator. , 2007, , .		2
52	A Technique to improve the dynamic range and linearity of a near-field imager based on the modulated scatterer approach. , 2009, , .		2
53	High efficiency solid state laser cooling in Yb <sup>3+</sup> :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
54	Fly-by-wire flight control smart optical rotary sensor for aircraft. , 2016, , .		2

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55	Measurements of DIII-D poloidal field by fiber-optic pulsed polarimetry. Review of Scientific Instruments, 2018, 89, 10J102.	1.3	2
56	Multimodal Sensing Guidewire for AC-Arm Navigation with Random UV Enhanced Optical Sensors Using Spatio-Temporal Networks. Lecture Notes in Computer Science, 2021, , 249-258.	1.3	2
57	Intensity correlations in random fiber lasers: A random-matrix-theory approach. Physical Review A, 2022, 105, .	2.5	1
58	Fiber taper Mach-Zehnder modal interferometer for broadband low-cost DPSK demodulation and duobinary signal generation. , 2006, , .		1
59	Single modulator payload/label encoding and node operations for optical label switching. IEEE Photonics Technology Letters, 2006, 18, 1140-1142.	2.5	1
60	Corrugated Metal Bragg Grating Assisted Integrated Planar Waveguide Surface Plasmon-Polariton Based Sensor. , 2007, , .		1
61	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
62	Sensing of laser cooling with optical fibres. , 2011, , .		1
63	Ultrahigh resolution distributed temperature and strain sensing in optical fibre with Rayleigh and Brillouin scattering. , 2015, , .		1
64	Optical sensors for fly-by-light flight control systems. , 2016, , .		1
65	Structural and optical properties of Nd:YAB-nanoparticle-doped PDMS elastomers for random lasers. Scientific Reports, 2021, 11, 16803.	3.3	1
66	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
67	True PMD emulation by the choice of free parameters in single polarization controller PMD emulator. , 0, , .		0
68	Novel Modulation Capability of a Long Hybrid Semiconductor Fiber-grating Laser with an Intra-cavity Saturable Absorber. , 2006, , .		0
69	Novel Single Mode Fiber Lens Coupler for Laser Diodes Based on Long Period Gratings in a Hybrid Graded-Index Multimode Fiber. , 2006, , .		0
70	Improved Method for Two-dimensional Determination of the Magnitude and Orientation of Weak Birefringence. , 2007, , .		0
71	Optical Error Correction using Passive Optical Logic Gates Demodulators in Differential Demodulation. , 2007, , .		0
72	Optimization of Yb <sup>3+</sup> :ZBLANP fiber structure for laser cooling. , 2008, , .		0

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73	High-power fiber amplifier with laser cooled cladding. , 2009, , .		0
74	Efficient broadband frequency conversion using engineered apodized $\Lambda^2$ gratings and fundamental harmonic resonance. , 2009, , .		0
75	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
76	LPG assisted high-power fiber amplifier with Er <sup>3+</sup> doped cladding. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S244-S247.	0.8	0
77	Integrated optical bio-sensor based on pure surface plasmon-polariton excited by a waveguide grating. , 2011, , .		0
78	Study of apodization of aperiodically poled lithium niobate (APPLN) for second harmonic generation (SHG). , 2011, , .		0
79	Optical fiber tissue elasticity sensor. , 2011, , .		0
80	Mid-IR fiber amplifier cooled with Yb <sup>3+</sup> ions. , 2011, , .		0
81	History and progress of the fiber fuse. , 2012, , .		0
82	Ultra-Narrow Linewidth and Highly Stable Laser for Radio over Fiber Distributed Antenna Systems. , 2015, , .		0
83	Assessment of the Accuracy of Optical Shape Sensing for Needle Tracking Interventions. Journal of Medical Devices, Transactions of the ASME, 2017, 11, .	0.7	0
84	Distributed temperature and strain sensing with high order stimulated Brillouin scattering. , 2017, , .		0
85	Parameter optimisation of pi-shifted distributed feedback fiber Bragg grating Raman lasers. , 2017, , .		0
86	Increasing the numerical aperture of waveguides in Gorilla glass <sup>®</sup> for smartphone applications. , 2017, , .		0
87	Hyper-Entanglement in Time and Frequency. , 2019, , .		0
88	Kerr Combs and Telecommunications Components for the Generation and High-Dimensional Quantum Processing of d-Level Cluster States. , 2019, , .		0