

# Pierre Suret

## List of Publications by Year in descending order

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82  
papers

2,218  
citations

218592

26  
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82  
docs citations

82  
times ranked

1148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction and manipulation of hydrodynamic rogue waves via nonlinear spectral engineering. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	13
2	Nonlinear dispersion relation in integrable turbulence. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
3	Spatiotemporal observation of higher-order modulation instability in a recirculating fiber loop. <i>Optics Letters</i> , 2022, 47, 3560.	1.7	5
4	Single-shot observation of breathers from noise-induced modulation instability using heterodyne temporal imaging. <i>Optics Letters</i> , 2021, 46, 298.	1.7	3
5	Local Emergence of Peregrine Solitons: Experiments and Theory. <i>Frontiers in Physics</i> , 2021, 8, .	1.0	7
6	Extreme rogue wave generation from narrowband partially coherent waves. <i>Physical Review E</i> , 2021, 103, 032209.	0.8	12
7	Numerical spectral synthesis of breather gas for the focusing nonlinear Schrödinger equation. <i>Physical Review E</i> , 2021, 103, 042205.	0.8	10
8	Phase Evolution of the Time- and Space-Like Peregrine Breather in a Laboratory. <i>Fluids</i> , 2021, 6, 308.	0.8	4
9	Solitonic model of the condensate. <i>Physical Review E</i> , 2021, 104, 044213.	0.8	10
10	Single-shot measurement of the photonic band structure in a fiber-based Floquet-Bloch lattice. <i>Communications Physics</i> , 2021, 4, .	2.0	5
11	Observation of a giant nonlinear wave-packet on the surface of the ocean. <i>Scientific Reports</i> , 2021, 11, 23606.	1.6	8
12	The Physics of the one-dimensional nonlinear Schrödinger equation in fiber optics: Rogue waves, modulation instability and self-focusing phenomena. <i>Reviews in Physics</i> , 2020, 5, 100037.	4.4	59
13	Topological Swing of Bloch Oscillations in Quantum Walks. <i>Physical Review Letters</i> , 2020, 125, 186804.	2.9	14
14	From modulational instability to focusing dam breaks in water waves. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	28
15	Emergence of Peregrine solitons in integrable turbulence of deep water gravity waves. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	15
16	Nonlinear Spectral Synthesis of Soliton Gas in Deep-Water Surface Gravity Waves. <i>Physical Review Letters</i> , 2020, 125, 264101.	2.9	50
17	Single-Shot Time-Resolved Phase and Intensity Measurement of Breathers in the Nonlinear Stage of Modulation Instability. , 2019, , .		0
18	Statistical Properties of the Nonlinear Stage of Modulation Instability in Fiber Optics. <i>Physical Review Letters</i> , 2019, 123, 093902.	2.9	51

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19	Early stage of integrable turbulence in the one-dimensional nonlinear Schrödinger equation: A semiclassical approach to statistics. <i>Physical Review E</i> , 2019, 100, 032212.	0.8	9
20	Nonlinear Evolution of the Locally Induced Modulational Instability in Fiber Optics. <i>Physical Review Letters</i> , 2019, 122, 054101.	2.9	69
21	Bound State Soliton Gas Dynamics Underlying the Spontaneous Modulational Instability. <i>Physical Review Letters</i> , 2019, 123, 234102.	2.9	67
22	Spontaneous emergence of rogue waves in partially coherent waves: A quantitative experimental comparison between hydrodynamics and optics. <i>Physical Review E</i> , 2018, 97, 012208.	0.8	32
23	Single-shot measurement of phase and amplitude by using a heterodyne time-lens system and ultrafast digital time-holography. <i>Nature Photonics</i> , 2018, 12, 228-234.	15.6	126
24	Nonlinear spectral analysis of Peregrine solitons observed in optics and in hydrodynamic experiments. <i>Physical Review E</i> , 2018, 98, 022219.	0.8	49
25	Catastrophic process of coherence degradation. , 2018, , .		0
26	Phase and amplitude single-shot measurement by using heterodyne time-lens and ultrafast digital time-holography (Conference Presentation). , 2018, , .		0
27	Single-shot observation of optical rogue waves in integrable turbulence using time microscopy. , 2017, , .		1
28	Origins of spectral broadening of incoherent waves: Catastrophic process of coherence degradation. <i>Physical Review A</i> , 2017, 96, .	1.0	5
29	Universality of the Peregrine Soliton in the Focusing Dynamics of the Cubic Nonlinear Schrödinger Equation. <i>Physical Review Letters</i> , 2017, 119, 033901.	2.9	103
30	Optical Random Riemann Waves in Integrable Turbulence. <i>Physical Review Letters</i> , 2017, 118, 233901.	2.9	21
31	Single shot observation of rogue waves in optical turbulence by using time microscopy. , 2017, , .		0
32	Phase and amplitude single-shot measurement by using time-lens and ultrafast time-holography. , 2017, , .		1
33	Nonlinear random optical waves: Integrable turbulence, rogue waves and intermittency. <i>Physica D: Nonlinear Phenomena</i> , 2016, 333, 323-335.	1.3	39
34	Hydrodynamic and Optical Waves: A Common Approach for Unidimensional Propagation. <i>Lecture Notes in Physics</i> , 2016, , 1-22.	0.3	4
35	Integrable Turbulence with Nonlinear Random Optical Waves. <i>Lecture Notes in Physics</i> , 2016, , 277-307.	0.3	0
36	On the origin of heavy-tail statistics in equations of the Nonlinear Schrödinger type. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 3173-3177.	0.9	28

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37	Twenty years of progresses in oceanic rogue waves: the role played by weakly nonlinear models. <i>Natural Hazards</i> , 2016, 84, 541-548.	1.6	22
38	Inverse scattering transform analysis of rogue waves using local periodization procedure. <i>Scientific Reports</i> , 2016, 6, 29238.	1.6	80
39	Single-shot observation of optical rogue waves in integrable turbulence using time microscopy. <i>Nature Communications</i> , 2016, 7, 13136.	5.8	186
40	Optical rogue waves in integrable turbulence. , 2016, , .		0
41	Chapter 4. Production of Singlet Oxygen by Direct Photoactivation of Molecular Oxygen. <i>Comprehensive Series in Photochemical and Photobiological Sciences</i> , 2016, , 75-91.	0.3	7
42	Optical Rogue Waves in Integrable Turbulence. <i>Physical Review Letters</i> , 2015, 114, 143903.	2.9	159
43	Statistics of a turbulent Raman fiber laser. <i>Optics Letters</i> , 2015, 40, 3101.	1.7	14
44	Intermittency in Integrable Turbulence. <i>Physical Review Letters</i> , 2014, 113, 113902.	2.9	68
45	Optical wave turbulence: Towards a unified nonequilibrium thermodynamic formulation of statistical nonlinear optics. <i>Physics Reports</i> , 2014, 542, 1-132.	10.3	208
46	Temporal dynamics of incoherent nonlinear waves. , 2014, , .		0
47	Intermittency in integrable turbulence. , 2014, , .		0
48	Cell death induced by direct laser activation of singlet oxygen at 1270 nm. <i>Laser Physics</i> , 2013, 23, 025601.	0.6	16
49	Transient buildup of the optical power spectrum in Raman fiber lasers. <i>Optics Express</i> , 2013, 21, 2331.	1.7	10
50	Experimental evidence of extreme value statistics in Raman fiber lasers. <i>Optics Letters</i> , 2012, 37, 500.	1.7	76
51	Nonlinear propagation of incoherent waves in single-mode fibers: from wave turbulence theory to experiments. , 2012, , .		0
52	Cancerous Cell Death from Sensitizer Free Photoactivation of Singlet Oxygen. <i>Photochemistry and Photobiology</i> , 2012, 88, 167-174.	1.3	66
53	Optical rogue waves in Raman fiber lasers. , 2012, , .		1
54	Wave turbulence in integrable systems: nonlinear propagation of incoherent optical waves in single-mode fibers. <i>Optics Express</i> , 2011, 19, 17852.	1.7	43

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55	Intracavity changes in the field statistics of Raman fiber lasers. <i>Optics Letters</i> , 2011, 36, 790.	1.7	38
56	Kinetic Description of Random Optical Waves and Anomalous Thermalization of a Nearly Integrable Wave System. <i>Letters in Mathematical Physics</i> , 2011, 96, 415-447.	0.5	6
57	Thermalization and condensation in an incoherently pumped passive optical cavity. <i>Physical Review A</i> , 2011, 84, .	1.0	22
58	Anomalous thermalization of nonlinear opticalwave systems. , 2011, , .		0
59	Statistical properties and optical spectra of Raman fiber lasers: Influence of Bragg-grating mirrors. , 2011, , .		0
60	Anomalous thermalization of optical waves induced by third-order dispersion effects. , 2010, , .		0
61	Anomalous Thermalization of Nonlinear Wave Systems. <i>Physical Review Letters</i> , 2010, 104, 054101.	2.9	42
62	A high-power tunable Raman fiber ring laser for the investigation of singlet oxygen production from direct laser excitation around 1270 nm. <i>Optics Express</i> , 2010, 18, 22928.	1.7	43
63	Influence of third-order dispersion on the propagation of incoherent light in optical fibers. <i>Optics Letters</i> , 2010, 35, 2367.	1.7	30
64	Influence of dispersion of fiber Bragg grating mirrors on formation of optical power spectrum in Raman fiber lasers. <i>Optics Letters</i> , 2010, 35, 2505.	1.7	17
65	Anomalous Thermalization of Nonlinear Optical Waves. , 2010, , .		0
66	Cooperative Oscillation of Nondegenerate Transverse Modes in an Optical System: Multimode Operation in Parametric Oscillators. <i>Physical Review Letters</i> , 2009, 102, 183901.	2.9	2
67	Grating-Free and Bragg-Grating-Based Raman Lasers Made With Highly Nonlinear Photonic Crystal Fibers. <i>Journal of Lightwave Technology</i> , 2009, 27, 1580-1589.	2.7	3
68	All-fiber Raman lasers with highly nonlinear photonic crystal fibers. , 2009, , .		0
69	Self-oscillations in a cascaded Raman laser made with a highly nonlinear photonic crystal fiber. <i>Optics Express</i> , 2008, 16, 11237.	1.7	10
70	Dynamics and spectral properties of a grating-free Raman laser made with a highly nonlinear photonic crystal fiber. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
71	Grating-free Raman laser using highly nonlinear photonic crystal fiber. <i>Optics Express</i> , 2007, 15, 16035.	1.7	11
72	Spectral broadening of a multimode continuous-wave optical field propagating in the normal dispersion regime of a fiber. <i>Optics Letters</i> , 2006, 31, 1696.	1.7	54

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73	Polarization-resolved analysis of the characteristics of a Raman laser made with a polarization maintaining fiber. Optics Communications, 2006, 260, 232-241.	1.0	5
74	Toward passive mode locking by nonlinear polarization evolution in a cascaded Raman fiber ring laser. Optics Communications, 2006, 267, 145-148.	1.0	11
75	Influence of spectral broadening on steady characteristics of Raman fiber lasers: from experiments to questions about validity of usual models. Optics Communications, 2004, 237, 201-212.	1.0	45
76	Influence of light polarization on dynamics of all-fiber Raman lasers: theoretical analysis. Optics Letters, 2004, 29, 2166.	1.7	11
77	Influence of light polarization on dynamics of continuous-wave-pumped Raman fiber lasers. Optics Letters, 2003, 28, 2464.	1.7	19
78	Dynamics of optical parametric oscillators. , 2003, , .		0
79	Periodic mode hopping induced by thermo-optic effects in continuous-wave optical parametric oscillators. Optics Letters, 2001, 26, 1415.	1.7	9
80	Fast oscillations in an optical parametric oscillator. Optics Communications, 2001, 200, 369-379.	1.0	8
81	Self-pulsing instabilities in an optical parametric oscillator: Experimental observation and modeling of the mechanism. Physical Review A, 2000, 61, .	1.0	25
82	Thermodynamic equilibrium of optical waves. Nature Physics, 0, , .	6.5	0