

# Soumendu Jana

## List of Publications by Year in descending order

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26  
papers

370  
citations

933447

10  
h-index

794594

19  
g-index

26  
all docs

26  
docs citations

26  
times ranked

137  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear evolution of cosh-Gaussian laser beams and generation of flat top spatial solitons in cubic quintic nonlinear media. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 362, 505-510.	2.1	112
2	Linear and nonlinear propagation of sinh-Gaussian pulses in dispersive media possessing Kerr nonlinearity. <i>Optics Communications</i> , 2004, 236, 7-20.	2.1	52
3	Tunable spectral switching in the far field with a chirped cosh-Gaussian pulse. <i>Optics Communications</i> , 2006, 267, 24-31.	2.1	40
4	Induced focusing and all optical switching in cubic quintic nonlinear media. <i>Optics Communications</i> , 2005, 255, 114-129.	2.1	31
5	Dispersion-Managed Optical Solitons with Higher-Order Nonlinearity. <i>Fiber and Integrated Optics</i> , 2005, 24, 537-548.	2.5	20
6	The effect of quintic nonlinearity on the propagation characteristics of dispersion managed optical solitons. <i>Chaos, Solitons and Fractals</i> , 2006, 29, 823-828.	5.1	16
7	Cavity Soliton Molecules and All-Optical Push-Broom Effect. <i>Journal of Lightwave Technology</i> , 2018, 36, 2463-2470.	4.6	16
8	Dissipative soliton fiber lasers with higher-order nonlinearity, multiphoton absorption and emission, and random dispersion. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 850.	2.1	12
9	Nonlinear Propagation of a Mixture of TEM <sub>00</sub> and TEM <sub>01</sub> Modes of a Laser Beam in a Cubic Quintic Medium. <i>Physica Scripta</i> , 2005, 71, 198-203.	2.5	11
10	Generation and dynamics of one- and two-dimensional cavity solitons in a vertical-cavity surface-emitting laser with a saturable absorber and frequency-selective feedback. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1374.	2.1	10
11	STABLE AND QUASISTABLE SPATIO-TEMPORAL SOLITONS IN CUBIC QUINTIC NONLINEAR MEDIA. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2004, 13, 25-36.	1.8	8
12	Generation, dynamics and bifurcation of high power soliton beams in cubic-quintic nonlocal nonlinear media. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 055504.	2.2	8
13	Bistable dissipative soliton in cubic-quintic nonlinear medium with multiphoton absorption and gain dispersion. <i>Journal of Electromagnetic Waves and Applications</i> , 2015, 29, 1410-1429.	1.6	7
14	Operating regimes of cavity solitons by virtue of a graphene flake saturable absorber. <i>Physical Review E</i> , 2021, 104, 024209.	2.1	7
15	Interplay of multiphoton absorption, Raman scattering, and third-order dispersion in soliton fiber lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 342.	2.1	5
16	Soliton Switching in Fiber Coupler with Periodically Modulated Dispersion, Coupling Constant Dispersion and Cubic Quintic Nonlinearity. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2008, 63, 145-151.	1.5	4
17	Dispersion-managed soliton fiber laser with random dispersion, multiphoton absorption and gain dispersion. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 105501.	2.2	4
18	Dispersion managed dissipative solitons with higher order nonlinearity and frequency-selective feedback. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	3.3	2

#	ARTICLE	IF	CITATIONS
19	Dissipative soliton dynamics and switching in split ring resonator based metamaterial with multi-photon absorption and diffusion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 398, 127261.	2.1	2
20	A generic travelling wave solution in dissipative laser cavity. Pramana - Journal of Physics, 2016, 87, 1.	1.8	1
21	Cavity solitons in VCSEL: a single pane solution of optical information technology. CSI Transactions on ICT, 2019, 7, 111-115.	1.0	1
22	Phase-Bistability and phase-locking patterns with cavity soliton in Vertical-cavity-based fast semiconductor saturable absorber. Optik, 2020, 204, 164194.	2.9	1
23	Dissipative soliton in optical fiber with multiphoton absorption and random dispersion. , 2015, , .		0
24	Generation of stable cavity soliton in vertical cavity surface emitting laser: A variational approach. , 2015, , .		0
25	Modeling of all-optical modulation format conversion from amplitude-shift keying to phase-shift keying using a vertical cavity quantum wells absorber. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3754.	2.1	0
26	Making a meta-surface soliton-ready. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2022, .	1.5	0