Mousumi Basu

List of Publications by Year
in descending order

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32	188	1307366 7	1199470 12
papers	citations	h-index	g-index

34	34	34	102
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Flexible, H-bond mediated bromophenol blue/poly(vinyl alcohol) composite for efficient laser filter application. Optical and Quantum Electronics, 2022, 54, 1.	1.5	1
2	Time-transformation technique: An approach to achieve supercontinuum in normal dispersion fiber optic cascaded system along with phase modulator. Optik, 2022, 252, 168502.	1.4	0
3	Generation of stable temporal doublet by a single-mode silicon core optical fiber. Journal of Optics (United Kingdom), 2022, 24, 055503.	1.0	4
4	Delafossite type CuCo0.5Ti0.5O2 composite structure: A futuristic ceramics for supercapacitor and EMI shielding application. Ceramics International, 2021, 47, 9907-9922.	2.3	19
5	Optical properties of Bromothymol Blue/PVA Composite: Development of flexible high performance laser filter. Journal of Polymer Research, 2021, 28, 1.	1.2	2
6	Interaction of a Pair of Parabolic Self-similar Pulses in Nonlinearity Varying Chalcogenide Fibers (NVCFs). Lecture Notes in Networks and Systems, 2021, , 275-281.	0.5	0
7	Time-transformation technique for generation of optical pulse multiplets in a single mode anomalous dispersion optical fiber. Applied Optics, 2021, 60, 9809.	0.9	4
8	Triangular pulse generation by using chalcogenide fibers and creation of tunable High frequency oscillations from the Interaction of reshaped pulse pair. Optik, 2020, 204, 164208.	1.4	6
9	Flexible alizarin red/PVA composites with colossal dielectric and high power laser filtering properties. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	4
10	Application of time transformation approach in optical pulse compression and supercontinuum generation by using suitable choices of fiber optic system. Optik, 2020, 204, 164200.	1.4	0
11	Colossal dielectric and room temperature ferromagnetic response in CCoTO delafossite type nanostructure. Solid State Sciences, 2020, 102, 106136.	1.5	7
12	Efficient generation of triangular optical pulses in an erbium-doped chalcogenide fiber amplifier by exploiting the time transformation technique. Applied Optics, 2020, 59, 11371.	0.9	2
13	Investigation of giant dielectric and room temperature ferromagnetic response of facile CZTO nanostructure. Journal of Materials Science: Materials in Electronics, 2019, 30, 13108-13117.	1.1	5
14	Visible light driven degradation of brilliant green dye using titanium based ternary metal oxide photocatalyst. Results in Physics, 2019, 12, 1850-1858.	2.0	39
15	Parabolic pulse regeneration in normal dispersion-decreasing fibers and its equivalent substitutes in presence of third-order dispersion. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	4
16	Methylene Blue/PVA composite film for flexible, wide-scale UVâ€“VIS laser cut-off filter. Materials Research Express, 2019, 6, 075332.	0.8	19
17	Potential use of nonlinearity-induced virtual gain on parabolic pulse formation in highly nonlinear tapered fiber system. Journal of Optics (United Kingdom), 2019, 21, 045503.	1.0	7
18	Third-order optical nonlinearity of the CuCo05Ti05O2 nanostructure under 120â€‰â€‰fs laser irradiation. Applied Optics, 2019, 58, 9163.	0.9	1

#	Article	IF	Citations
19	Prospective use of a normally dispersive step-index chalcogenide fiber in nonlinear pulse reshaping. Applied Optics, 2018, 57, 3348.	0.9	12
20	An efficient way of third-order dispersion compensation for reshaping parabolic pulses through normal dispersion fiber amplifier. Journal of Optics (United Kingdom), 2018, 20, 095503.	1.0	3
21	Designing suitable dispersion decreasing active fibers to generate parabolic pulses in presence of macrobending. Optical and Quantum Electronics, 2017, 49, 1.	1.5	1
22	Performance of different normal dispersion fibers to generate triangular optical pulses. Optical and Quantum Electronics, 2017, 49, 1.	1.5	8
23	Study of parabolic self-similar optical pulse generation in single mode fibers using variational approximation for the LP mode. Optik, 2016, 127, 8386-8393.	1.4	1
24	Silica based highly nonlinear fibers to generate parabolic self-similar pulses. Optical and Quantum Electronics, 2015, 47, 2615-2635.	1.5	6
25	Parabolic and semiparabolic pulse dynamics in optical fibers. Optical Engineering, 2015, 54, 016108.	0.5	3
26	Nonlinear pulse reshaping in a designed erbium-doped fiber amplifier with a multicladded index profile. Optical Engineering, 2013, 52, 086104.	0.5	6
27	Efficient parabolic similariton geneartion by third order dispersion compensation. , 2012, , .		0
28	Efficient dispersion tailoring by designing alternately arranged dispersion compensating fibers and fiber amplifiers to create self-similar parabolic pulses. Optics and Laser Technology, 2010, 42, 1301-1307.	2.2	5
29	Propagation of short soliton pulses through a parabolic index fiber with dispersion decreasing along length. Optics Communications, 2008, 281, 3361-3368.	1.0	11
30	Theoretical Design of Normal Dispersion Decreasing Fiber Amplifier to Obtain Self-Similar Parabolic Pulses and Its Practical Aspects. , 2008, , .		0
31	Dispersion-Compensating Graded Index Multiclad Fiber: Optimization for Dispersion-Managed WDM Transmission Systems. Fiber and Integrated Optics, 2007, 26, 49-61.	1.7	1
32	Nonlinear pulse reshaping in a typically designed silicon on insulator waveguide and its application to generate high repetition rate pulse train. Journal of Optics (United Kingdom), 0, , .	1.0	7