Swapan K Mandal

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5794563/publications.pdf

Version: 2024-02-01

99 papers

1,225 citations

17
h-index

31 g-index

99 all docs 99 docs citations 99 times ranked 1423 citing authors

#	Article	IF	CITATIONS
1	Morphology controlled (CH3NH3)3Bi2Cl9 thin film for lead free perovskite solar cell. Physica B: Condensed Matter, 2022, 625, 413536.	1.3	8
2	Evolution of magnetic and transport properties in the Cu-doped pyrochlore iridate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Eu</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>		

#	Article	IF	CITATIONS
19	On the quantum phase fluctuations of coherent light in a chain of two anharmonic oscillators coupled through a linear one. Optics Communications, 2016, 366, 340-348.	1.0	5
20	Nonclassical properties of coherent light in a pair of coupled anharmonic oscillators. Optics Communications, 2016, 359, 221-233.	1.0	9
21	On-Surface Synthesis of Single Conjugated Polymer Chains for Single-Molecule Devices. Advances in Atom and Single Molecule Machines, 2016, , 167-179.	0.0	0
22	Size effect on the magnetic properties of oleic acid stabilized substrate free BiFeO3nanocrystals. EPJ Applied Physics, 2015, 70, 10601.	0.3	2
23	UV emission from self-assembled ZnS nanowires on DNA templates. EPJ Applied Physics, 2015, 70, 20401.	0.3	0
24	Exact dynamics and squeezing in two harmonic modes coupled through angular momentum. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 165501.	0.6	4
25	Observation of Pronounced Electric Polarization and Strong Magnetization in Mn Doped BiFeO ₃ Nanocrystals. Advanced Science, Engineering and Medicine, 2015, 7, 952-957.	0.3	1
26	Semiconductor–metal–semiconductor transition in Bi and Bi–Ag nanowires. Journal Physics D: Applied Physics, 2014, 47, 325302.	1.3	1
27	Ordered Monomolecular Layers as a Template for the Regular Arrangement of Gold Nanoparticles. Langmuir, 2013, 29, 7334-7343.	1.6	8
28	Pronounced Multiferroicity in Oleic Acid Stabilized BiFeO3 Nanocrystals at Room Temperature. Journal of Nanoscience and Nanotechnology, 2013, 13, 4090-4096.	0.9	5
29	Interconnects with single conjugated polymers. , 2013, , .		0
30	STRUCTURAL AND OPTICAL PROPERTIES OF SINGLE CRYSTALLINE BISMUTH NANOPARTICLES IN POLYMER. International Journal of Modern Physics Conference Series, 2013, 22, 654-659.	0.7	3
31	Squeezing and photon antibunching in second harmonic generation: an analytical approach. Journal of Modern Optics, 2012, 59, 555-564.	0.6	5
32	Controlled chain polymerisation and chemical soldering for single-molecule electronics. Nanoscale, 2012, 4, 3013.	2.8	68
33	High Ferromagnetic Transition Temperature in PbS and PbS:Mn Nanowires. ACS Applied Materials & https://www.lnterfaces, 2012, 4, 205-209.	4.0	13
34	Methanol sensing characteristics of conducting polypyrrole-silver nanocomposites. EPJ Applied Physics, 2012, 58, 20402.	0.3	4
35	Rate-Determining Factors in the Chain Polymerization of Molecules Initiated by Local Single-Molecule Excitation. ACS Nano, 2011, 5, 2779-2786.	7.3	35
36	Chemical Wiring and Soldering toward All-Molecule Electronic Circuitry. Journal of the American Chemical Society, 2011, 133, 8227-8233.	6.6	93

3

#	Article	IF	Citations
37	Fabrication of Luminescent Silver Doped PbS Nanowires in Polymer. Journal of Nanoscience and Nanotechnology, 2011, 11, 10234-10239.	0.9	5
38	A theoretical analysis on coherent double resonant absorptive lineshape in closely spaced transitions for î»â°type five level system. Optics Communications, 2011, 284, 376-387.	1.0	6
39	The solutions of the generalized classical and quantum harmonic oscillators with time dependent mass, frequency, two-photon parameter and external force: The squeezing effects. Optics Communications, 2010, 283, 4685-4695.	1.0	8
40	Polymer stabilized Ni–Ag and Ni–Fe alloy nanoclusters: Structural and magnetic properties. Journal of Magnetism and Magnetic Materials, 2010, 322, 934-939.	1.0	17
41	An analytical study on absorptive lineshape of a driven N-type open four-level system: Quantum interference effects. Optics Communications, 2010, 283, 1832-1839.	1.0	5
42	Electron spin resonance in silver-doped PbS nanorods. Journal of Experimental Nanoscience, 2010, 5, 189-198.	1.3	9
43	Analytical studies on pump-induced optical resonances in anM-typesix-level system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 245505.	0.6	7
44	Coherent control on absorption and dispersion in closely spaced transitions for a four-level system with three closely-spaced upper levels. Journal of Modern Optics, 2010, 57, 1428-1436.	0.6	3
45	Connecting single conductive polymers to a single functional molecule. , 2010, , .		0
46	Doppler-free absorptive signal lineshape of a four-level double î»-type system: Rabi splitting and two-photon effects. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 145403.	0.6	5
47	Amplitude-squared squeezing of coherent light coupled to a driven quantum oscillator with time-dependent mass and frequency. Journal of Modern Optics, 2008, 55, 1387-1415.	0.6	2
48	Humidity-sensing properties of conducting polypyrrole-silver nanocomposites. Journal of Experimental Nanoscience, 2008, 3, 297-305.	1.3	25
49	COMMENTS ON "NTH-ORDER SQUEEZING OF THE FIELD AMPLITUDE IN RAMAN PROCESS AS A GENERALIZATION OF THE HIGHER-ORDER SQUEEZING". International Journal of Modern Physics B, 2008, 22, 2151-2156.	1.0	0
50	Phase fluctuations of coherent light coupled to a driven quantum oscillator with time-dependent mass and frequency. Journal of Modern Optics, 2008, 55, 1603-1628.	0.6	2
51	Amplitude-squared and amplitude-cubed squeezing in stimulated Raman and in spontaneous Raman scattering. Journal of Modern Optics, 2008, 55, 1697-1711.	0.6	13
52	Low frequency divergence of the dielectric constant and signature of the Meyer–Neldel rule in the ac conductivity of PbS and PbS:Mn nanorods in polymer. Journal of Applied Physics, 2008, 103, 064311.	1.1	2
53	SQUEEZING EFFECTS IN THE SUM AND DIFFERENCE OF THE FIELD AMPLITUDE IN THE RAMAN PROCESS. Modern Physics Letters B, 2007, 21, 1107-1110.	1.0	0
54	Quantum statistical properties of the radiation field in spontaneous Raman and stimulated Raman processes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1417-1427.	0.6	17

#	Article	IF	CITATIONS
55	Squeezing, photon bunching, photon antibunching and nonclassical photon statistics in degenerate hyper Raman processes. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 2901-2916.	0.6	8
56	Strong excitonic confinement effect in ZnS and ZnS:Mn nanorods embedded in polycarbonate membrane pores. Journal of Applied Physics, 2007, 101, 114315.	1.1	17
57	Polymer assisted preferential growth of PbS and PbS:Mn nanorods: structural and optical properties. Journal of Experimental Nanoscience, 2007, 2, 257-267.	1.3	10
58	Fluorescent magnetic emulsion droplets: Potential material for multiplexed optical coding of biomolecules. Journal of Magnetism and Magnetic Materials, 2007, 311, 88-91.	1.0	7
59	Electron spin resonance in DNA doped polypyrrole. Journal Physics D: Applied Physics, 2006, 39, 1944-1947.	1.3	0
60	Spontaneous decay controlled inversionless laser in a V-type four level system. Optics Communications, 2006, 264, 219-224.	1.0	6
61	DNA in Nanopores: Negative Capacitance and $\langle I \rangle \hat{I}' \langle I \rangle$ -Relaxation at High Frequency. Journal of Nanoscience and Nanotechnology, 2006, 6, 1453-1457.	0.9	3
62	Direct electrical conduction in DNA molecules confined in nanoporous membrane. Applied Physics Letters, 2006, 89, 193102.	1.5	2
63	Comments on â€~Higher order squeezing of the electromagnetic field in spontaneous and in stimulated Raman processes'. Journal of Modern Optics, 2006, 53, 2811-2814.	0.6	3
64	The approximate solution of a classical quartic anharmonic oscillator with periodic force: a simple analytical approach. Communications in Nonlinear Science and Numerical Simulation, 2005, 10, 341-352.	1.7	2
65	Encapsulation of Magnetic and Fluorescent Nanoparticles in Emulsion Droplets. Langmuir, 2005, 21, 4175-4179.	1.6	86
66	Squeezed states in spontaneous Raman and in stimulated Raman processes. Journal of Modern Optics, 2005, 52, 1789-1807.	0.6	37
67	Cobalt doped \hat{l}^3 -Fe2O3nanoparticles: synthesis and magnetic properties. Nanotechnology, 2005, 16, 506-511.	1.3	61
68	ANALYTICAL SOLUTIONS OF ARBITRARY ORDERS TO THE CLASSICAL AND QUANTUM OSCILLATORS WITH VELOCITY-DEPENDENT QUARTIC ANHARMONICITIES. Modern Physics Letters B, 2004, 18, 1453-1466.	1.0	1
69	Photon-bunching, photon-antibunching and the nonclassical photon statistics of coherent light coupled to a driven harmonic oscillator of time dependent mass and frequency. Optics Communications, 2004, 240, 363-378.	1.0	11
70	On the squeezing of coherent light coupled to a driven damped harmonic oscillator with time dependent mass and frequency. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 321, 308-318.	0.9	13
71	Approximate quantum statistical properties of a nonlinear optical coupler. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 328, 144-156.	0.9	19
72	Electronic conduction processes in DNA-doped polypyrrole nanocomposite films. Nanotechnology, 2004, 15, 250-253.	1.3	18

#	Article	IF	CITATIONS
73	Synthesis of DNA-Polypyrrole Nanocapsule. Journal of Nanoscience and Nanotechnology, 2004, 4, 972-975.	0.9	11
74	Charge transport in chemically synthesized, DNA-doped polypyrrole. Journal Physics D: Applied Physics, 2004, 37, 2908-2913.	1.3	12
7 5	Effect of interfacial alloying on the surface plasmon resonance of nanocrystalline Au-Ag multilayer thin films. European Physical Journal B, 2003, 33, 109-114.	0.6	47
76	An ellipsometric investigation of Ag/SiO $\$$ mathsf $\{2\}$ nanocomposite thin films. European Physical Journal B, 2003, 34, 25-31.	0.6	10
77	Synthesis of \$mathsf{gamma}\$-Fe\$mathsf{_2}\$O\$mathsf{_3}\$ nanoparticles coated on silica spheres: Structural and magnetic properties. European Physical Journal B, 2003, 34, 163-171.	0.6	16
78	Two electrons in a harmonic potential: an approximate analytical solution. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 4483-4494.	0.6	8
79	Classical damped quartic anharmonic oscillator: a simple analytical approach. International Journal of Non-Linear Mechanics, 2003, 38, 1095-1101.	1.4	3
80	Effect of particle shape distribution on the surface plasmon resonance of AgÂSiO2nanocomposite thin films. Journal Physics D: Applied Physics, 2003, 36, 261-265.	1.3	50
81	On the Quantization Problem of a Driven Harmonic Oscillator with Time Dependent Mass and Frequency. Modern Physics Letters B, 2003, 17, 983-990.	1.0	7
82	Effects of Field-Induced Coherence on Laser Without Population Inversion and on Absorptionless Dispersion for a V-Type Three Level System. International Journal of Modern Physics B, 2003, 17, 2715-2733.	1.0	4
83	SQUEEZING, HIGHER-ORDER SQUEEZING, PHOTON-BUNCHING AND PHOTON-ANTIBUNCHING IN A QUADRATIC HAMILTONIAN. Modern Physics Letters B, 2002, 16, 963-973.	1.0	14
84	Surface plasmon resonance in nanocrystalline silver particles embedded in SiO2 matrix. Journal Physics D: Applied Physics, 2002, 35, 2198-2205.	1.3	71
85	Optical properties of $Cd1\hat{A}xZnxS$ nanocrystallites in sol \hat{A} gel silica matrix. Journal Physics D: Applied Physics, 2002, 35, 2636-2642.	1.3	39
86	Classical and quantum oscillators of sextic and octic anharmonicities. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 298, 259-270.	0.9	14
87	An intuitive approach to the higher order solutions for classical and quantum oscillators of quartic anharmonicity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 299, 531-542.	0.9	14
88	A simplified approach to the closed form approximate analytical solutions for classical and quantum oscillators of $(n+1)$ th anharmonicity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 305, 37-51.	0.9	8
89	Classical and quantum oscillators of quartic anharmonicities: second-order solution. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 286, 261-276.	0.9	28
90	Phase fluctuations of coherent light coupled to a nonlinear medium of inversion symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 272, 346-352.	0.9	16

#	Article	IF	CITATIONS
91	On the possibility of continuous generation of squeezed states in a quartic anharmonic oscillator. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 1029-1038.	0.6	11
92	Effects of field induced quantum coherence on the absorptive lineshape of a V-type three-level system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 4581-4591.	0.6	6
93	Photon-number distribution of squeezed states: A graphical treatment. Physical Review A, 1998, 58, 752-754.	1.0	5
94	Au/CdS Schottky Diode Fabricated with Nanocrystalline CdS Layer. Physica Status Solidi A, 1997, 163, 433-443.	1.7	13
95	Line shape, frequency shift, Rabi splitting, and two-photon resonances in four-level double-resonance spectroscopy with closely spaced intermediate levels. Physical Review A, 1993, 47, 4934-4945.	1.0	15
96	Line shape and frequency shift of Lamb dip and crossover-resonance dip in closely spaced transitions. Physical Review A, 1992, 45, 4990-4997.	1.0	27
97	Signal line shapes in four-level double resonance spectroscopy with closely spaced levels. Spectrochimica Acta Part A: Molecular Spectroscopy, 1992, 48, 1563-1571.	0.1	7
98	Blochâ€"Siegert effect in three-level rfmw double resonance. Chemical Physics Letters, 1992, 193, 185-190.	1.2	4
99	Lineshape theory of doppler-free coupled closely spaced transitions in the presence of a strong radiation field: The effect of non-resonant interactions. Chemical Physics Letters, 1989, 164, 279-284.	1.2	12