

Kang-Xian Guo

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,707
citations

331670

21
h-index

289244

40
g-index

60
all docs

60
docs citations

60
times ranked

300
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear optical rectification in parabolic quantum wells with an applied electric field. <i>Physical Review B</i> , 1993, 47, 16322-16325.	3.2	152
2	Nonlinear optical rectification in parabolic quantum dots in the presence of electric and magnetic fields. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 1337-1340.	2.1	118
3	Linear and nonlinear intersubband optical absorption in double triangular quantum wells. <i>Solid State Communications</i> , 2009, 149, 310-314.	1.9	109
4	Linear and nonlinear optical properties in a disk-shaped quantum dot with a parabolic potential plus a hyperbolic potential in a static magnetic field. <i>Physica B: Condensed Matter</i> , 2012, 407, 3676-3682.	2.7	103
5	Electron-phonon interaction effect on optical absorption in cylindrical quantum wires. <i>Solid State Communications</i> , 2006, 139, 76-79.	1.9	100
6	Exciton effects on the nonlinear optical rectification in one-dimensional quantum dots. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 335, 175-181.	2.1	95
7	Exciton effects on the optical absorptions in one-dimensional quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 36, 92-97.	2.7	91
8	Theoretical studies on the optical absorption coefficients and refractive index changes in parabolic quantum dots in the presence of electric and magnetic fields. <i>Superlattices and Microstructures</i> , 2010, 47, 325-334.	3.1	82
9	Linear and nonlinear intersubband optical absorption in a disk-shaped quantum dot with a parabolic potential plus an inverse squared potential in a static magnetic field. <i>Physica B: Condensed Matter</i> , 2012, 407, 2334-2339.	2.7	73
10	Studies on the third-harmonic generations in cylindrical quantum dots with an applied electric field. <i>Superlattices and Microstructures</i> , 2010, 48, 541-549.	3.1	69
11	Third-harmonic generation in cylindrical quantum dots in a static magnetic field. <i>Solid State Communications</i> , 2011, 151, 289-292.	1.9	46
12	Polaron effects on the third-order nonlinear optical susceptibility in asymmetrical semi-parabolic quantum wells. <i>Physica B: Condensed Matter</i> , 2006, 383, 183-187.	2.7	40
13	Influence of position-dependent effective mass on the nonlinear optical properties in Al _{0.1} Ga _{0.9} As/GaAs single and double triangular quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 115, 113707.	2.7	36
14	Optical second harmonic generation in asymmetric double triangular quantum wells. <i>Superlattices and Microstructures</i> , 2009, 45, 125-133.	3.1	34
15	Studies on the third-harmonic generation of double-layered quantum wires in magnetic fields. <i>Optical and Quantum Electronics</i> , 2001, 33, 231-237.	3.3	29
16	The Combined Influence of Hydrostatic Pressure and Temperature on Nonlinear Optical Properties of GaAs/Ga _{0.7} Al _{0.3} As Morse Quantum Well in the Presence of an Applied Magnetic Field. <i>Materials</i> , 2018, 11, 668.	2.9	28
17	Linear and nonlinear intersubband optical absorption and refractive index change in asymmetrical semi-exponential quantum wells. <i>Superlattices and Microstructures</i> , 2012, 52, 183-192.	3.1	27
18	Third-harmonic generation in cubical quantum dots. <i>Superlattices and Microstructures</i> , 2009, 46, 672-678.	3.1	24

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19	Nonlinear optical rectification in cubical quantum dots. <i>Physica B: Condensed Matter</i> , 2009, 404, 2332-2335.	2.7	24
20	Nonlinear optical absorption coefficients and refractive index changes in a two-dimensional system. <i>Physica B: Condensed Matter</i> , 2010, 405, 4366-4369.	2.7	22
21	Third-harmonic generation in asymmetric coupled quantum wells. <i>Superlattices and Microstructures</i> , 2009, 45, 8-15.	3.1	21
22	Enhancement of surface plasmon resonances on the nonlinear optical properties in a GaAs quantum dot. <i>Superlattices and Microstructures</i> , 2017, 105, 56-64.	3.1	21
23	Effect of Conduction Band Non-Parabolicity on the Nonlinear Optical Properties in GaAs/Ga $1-x$ Al x As Double Semi-V-shaped Quantum Wells. <i>Materials</i> , 2019, 12, 78.	2.9	21
24	Exciton effect on the linear and nonlinear optical absorption coefficients and refractive index changes in Morse quantum wells with an external electric field. <i>Thin Solid Films</i> , 2020, 710, 138286.	1.8	21
25	Polaron effects on the optical rectification in asymmetrical semi-exponential quantum wells. <i>Superlattices and Microstructures</i> , 2014, 69, 122-128.	3.1	20
26	The effect of temperature, hydrostatic pressure and magnetic field on the nonlinear optical properties of AlGaAs/GaAs semi-parabolic quantum well. <i>International Journal of Modern Physics B</i> , 2019, 33, 1950325.	2.0	20
27	Influence of the position dependent effective mass on the nonlinear optical properties in semiparabolic and parabolic quantum well with applied magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 108, 238-243.	2.7	19
28	Nonlinear optical rectification and electronic structure in asymmetric coupled quantum wires. <i>Results in Physics</i> , 2020, 17, 103027.	4.1	19
29	Study on the optical rectification and second-harmonic generation with position-dependent mass in a quantum well. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 119, 50-55.	4.0	16
30	The effect of position-dependent mass on nonlinear optical absorption coefficients and refractive index changes in a quantum well. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750009.	2.0	15
31	The effect of hydrostatic pressure, temperature and magnetic field on the nonlinear optical properties of asymmetrical Gaussian potential quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 77, 90-96.	2.7	14
32	Nonlinear optical rectification in laterally-coupled quantum well wires with applied electric field. <i>Superlattices and Microstructures</i> , 2017, 103, 230-244.	3.1	14
33	Polaron effects on the optical refractive index changes in asymmetrical quantum wells. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 484-487.	2.1	12
34	Polaron effects on nonlinear optical refractive index changes in semi-exponential quantum wells. <i>Optics Letters</i> , 2018, 43, 3550.	3.3	12
35	Dot Pattern Designing on Light Guide Plate of Backlight Module by the Method of Molecular Potential Energy. <i>Journal of Display Technology</i> , 2010, 6, 166-169.	1.2	11
36	Third-harmonic generation investigated by a short-range bottomless exponential potential well. <i>Superlattices and Microstructures</i> , 2018, 122, 538-547.	3.1	11

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37	The nonlinear optical absorption in $\text{Al}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ double-graded quantum wells: magnetic field effect and the position-dependent effective mass effect. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	11
38	Research on third-harmonic generation with position-dependent mass in a quantum well. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 1408.	2.1	10
39	Nonlinear optical properties of semiconductor double quantum wires coupled to a quantum-sized metal nanoparticle. <i>Optics Letters</i> , 2020, 45, 379.	3.3	10
40	Polaron effects on the optical rectification in a two-dimensional quantum pseudodot system. <i>Optical and Quantum Electronics</i> , 2012, 44, 493-502.	3.3	9
41	Tunneling effect on second-harmonic generation in quantum dot molecule. <i>Superlattices and Microstructures</i> , 2016, 91, 358-364.	3.1	9
42	Tunability of linear and nonlinear optical absorption in laterally-coupled $\text{Al}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ quantum wires. <i>Journal of Alloys and Compounds</i> , 2018, 746, 653-659.	5.5	9
43	Terahertz laser field manipulation on the electronic and nonlinear optical properties of laterally-coupled quantum well wires. <i>Optics Express</i> , 2022, 30, 5200.	3.4	9
44	Third-order nonlinear optical properties of parabolic and semiparabolic quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 238, 75-80.	1.5	8
45	INTERSUBBAND OPTICAL ABSORPTION IN CYLINDRICAL QUANTUM DOT QUANTUM WELL. <i>International Journal of Modern Physics B</i> , 2009, 23, 3179-3186.	2.0	7
46	Enhancement of surface plasmon resonances on nonlinear optical properties in spherical dome semiconductor nanoshells. <i>Superlattices and Microstructures</i> , 2018, 122, 394-403.	3.1	7
47	Nonlinear optical properties in a hybrid system composed of metal nanoparticles and Morse quantum wells. <i>Physica B: Condensed Matter</i> , 2022, 624, 413424.	2.7	7
48	Binding energy and the third-order nonlinear optical susceptibility of an exciton in $\text{GaAs}/\text{AlGaAs}$ core/shell spherical quantum dot. <i>Journal of Optics (India)</i> , 2018, 47, 445-455.	1.7	6
49	Controllable four-wave mixing based on quantum dot-cavity coupling system. <i>Communications in Theoretical Physics</i> , 2021, 73, 055101.	2.5	6
50	ELECTRON-PHONON INTERACTION EFFECTS ON THIRD-HARMONIC GENERATION IN CYLINDRICAL QUANTUM WIRES. <i>International Journal of Modern Physics B</i> , 2004, 18, 53-61.	2.0	5
51	SHALLOW DONOR IMPURITY BINDING ENERGY IN A QUANTUM WIRE WITHIN AN ELECTRIC FIELD. <i>Modern Physics Letters B</i> , 2006, 20, 1351-1356.	1.9	5
52	Enhancement of surface plasmon resonances on the nonlinear optical properties in an elliptical quantum dot. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 2251.	2.1	5
53	Influence of terahertz field on optical absorption coefficients and refractive index changes in double semi-V-shaped quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 2308.	2.1	4
54	Second-Harmonic Generation Investigated by Topless Potential Well With Inverse Square Root. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 693-696.	2.5	3

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55	Anisotropic optical properties in a square quantum well wire under different polarizations of intense laser fields. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 1850.	2.1	3
56	Controllable four-wave mixing response in a dual-cavity hybrid optomechanical system*. <i>Chinese Physics B</i> , 2021, 30, 054209.	1.4	3
57	Controllable four-wave mixing in an atom- μ optical cavity coupling system with a second-order nonlinear crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 46.	2.1	0
58	Anisotropic photoelectric properties in GaN/AlN quantum dots under terahertz laser polarization. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 144, 115390.	2.7	0