Miguel E Mora-Ramos

List of Publications by Year
in descending order

265	3,979	159585	233421
papers	citations	30 h-index	45 g-index

267	267	267	903
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonlinear optical rectification and optical absorption in GaAsâ€“Ga1â€“xAlxAs asymmetric double quantum wells: Combined effects of applied electric and magnetic fields and hydrostatic pressure. Journal of Luminescence, 2011, 131, 1502-1509.	3.1	119
2	Nonlinear optical rectification and the second and third harmonic generation in PÃ¶schlâ€“Teller quantum well under the intense laser field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1875-1880.	2.1	111
3	Linear and nonlinear optical properties in a semiconductor quantum well under intense laser radiation: Effects of applied electromagnetic fields. Journal of Luminescence, 2012, 132, 901-913.	3.1	94
4	Nonlinear optical rectification and second-harmonic generation in a semi-parabolic quantum well under intense laser field: Effects of electric and magnetic fields. Superlattices and Microstructures, 2015, 81, 26-33.	3.1	81
5	Nonlinear optical rectification and second and third harmonic generation in GaAs systems under hydrostatic pressure. Journal of Luminescence, 2012, 132, 449-456.	3.1	74
6	Impurity-related linear and nonlinear optical response in quantum-well wires with triangular cross section. Journal of Luminescence, 2013, 143, 304-313.	3.1	70
7	Donor impurity-related linear and nonlinear optical absorption coefficients in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0099.gif" overflow="scroll"><mml:mi>GaAs</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mi>Ga</mml:mi></mml:mrow><mml:m concentric double quantum rings:. Journal of Luminescence, 2014, 145, 676-683.	3.1	69
8	Magneto-optical transport properties of monolayer transition metal dichalcogenides. Physical Review B, 2020, 101, .	3.2	69
9	Effect of intense high-frequency laser field on the linear and nonlinear intersubband optical absorption coefficients and refractive index changes in a parabolic quantum well under the applied electric field. Journal of Luminescence, 2014, 145, 379-386.	3.1	59
10	Electron-related optical responses in triangular quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 60, 127-132.	2.7	55
11	Donor impurity states and related optical responses in triangular quantum dots under applied electric field. Superlattices and Microstructures, 2014, 73, 171-184.	3.1	55
12	Hydrostatic pressure and electric field effects and nonlinear optical rectification of confined excitons in spherical quantum dots. Superlattices and Microstructures, 2011, 49, 264-268.	3.1	53
13	The effects of the electric and magnetic fields on the nonlinear optical properties in the step-like asymmetric quantum well. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 61, 107-110.	2.7	50
14	Optical nonlinearities associated to applied electric fields in parabolic two-dimensional quantum rings. Journal of Luminescence, 2013, 143, 81-88.	3.1	49
15	Intersubband optical absorption coefficients and refractive index changes in a graded quantum well under intense laser field: Effects of hydrostatic pressure, temperature and electric field. Physica B: Condensed Matter, 2014, 434, 26-31.	2.7	49
16	Hydrostatic pressure, impurity position and electric and magnetic field effects on the binding energy and photo-ionization cross section of a hydrogenic donor impurity in an InAs PÃ¶schl-Teller quantum ring. European Physical Journal B, 2011, 84, 265-271.	1.5	46
17	Simultaneous effects of electron-hole correlation, hydrostatic pressure, and temperature on the third harmonic generation in parabolic GaAs quantum dots. Journal of Nanoparticle Research, 2011, 13, 6103-6112.	1.9	46
18	Electronic states in GaAs-(Al,Ga)As eccentric quantum rings under nonresonant intense laser and magnetic fields. Scientific Reports, 2019, 9, 1427.	3.3	46

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19	Combined effects of intense laser field, electric and magnetic fields on the nonlinear optical properties of the step-like quantum well. Materials Chemistry and Physics, 2015, 154, 170-175.	4.0	43
20	Properties of the second and third harmonics generation in a quantum disc with inverse square potential. A modeling for nonlinear optical responses of a quantum ring. Journal of Luminescence, 2013, 138, 53-60.	3.1	42
21	Linear and nonlinear optical properties in an asymmetric double quantum well under intense laser field: Effects of applied electric and magnetic fields. Optical Materials, 2016, 58, 107-112.	3.6	38
22	Quantum disc plus inverse square potential. An analytical model for twoâ€dimensional quantum rings: Study of nonlinear optical properties. Annalen Der Physik, 2012, 524, 327-337.	2.4	37
23	Thomas-Fermi approximation inp-type Î´-doped quantum wells of GaAs and Si. Physical Review B, 1998, 57, 6286-6289.	3.2	36
24	Simultaneous effects of hydrostatic pressure and temperature on the nonlinear optical properties in a parabolic quantum well under the intense laser field. Optics Communications, 2013, 309, 158-162.	2.1	36
25	Linear and nonlinear magneto-optical properties of an off-center single dopant in a spherical core/shell quantum dot. Physica B: Condensed Matter, 2017, 524, 64-70.	2.7	35
26	Effects of hydrostatic pressure and electric field on the nonlinear optical rectification of strongly confined electronâ€“hole pairs in GaAs quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1002-1006.	2.7	34
27	Combined effects of intense laser field and applied electric field on exciton states in GaAs quantum wells: Transition from the single to double quantum well. Physica Status Solidi (B): Basic Research, 2012, 249, 118-127.	1.5	33
28	Optical coefficients in a semiconductor quantum ring: Electric field and donor impurity effects. Optical Materials, 2016, 60, 148-158.	3.6	33
29	Theoretical study of phosphorene multilayers: optical properties and small organic molecule physisorption. Journal of Materials Science, 2018, 53, 5103-5113.	3.7	33
30	Effects of Geometry on the Electronic Properties of Semiconductor Elliptical Quantum Rings. Scientific Reports, 2018, 8, 13299.	3.3	33
31	Impurity-induced resonant Raman scattering. Physical Review B, 1992, 45, 6601-6613.	3.2	32
32	Asymmetric GaAs n-type double Î´-doped quantum wells as a source of intersubband-related nonlinear optical response: Effects of an applied electric field. Journal of Luminescence, 2014, 147, 77-84.	3.1	32
33	Optical characterization of polytype Fibonacci and Thueâ€“Morse quasiregular dielectric structures made of porous silicon multilayers. Journal Physics D: Applied Physics, 2007, 40, 3203-3211.	2.8	31
34	Excitons in cylindrical GaAs PÃ¶schlâ€“Teller quantum dots: Hydrostatic pressure and temperature effects. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 338-344.	2.7	31
35	Donor impurity-related linear and nonlinear intraband optical absorption coefficients in quantum ring: effects of applied electric field and hydrostatic pressure. Nanoscale Research Letters, 2012, 7, 538.	5.7	31
36	Electron-related nonlinearities in GaAsâ€“Ga1â^'xAlxAs double quantum wells under the effects of intense laser field and applied electric field. Journal of Luminescence, 2013, 135, 301-311.	3.1	31

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37	Impurity-related nonlinear optical properties in delta-doped quantum rings: Electric field effects. Physica B: Condensed Matter, 2014, 453, 140-145.	2.7	31
38	Hydrostatic pressure effects on the Î“â€“X conduction band mixing and the binding energy of a donor impurity in GaAsâ€“Ga1â€“xAlxAs quantum wells. Physica Status Solidi (B): Basic Research, 2007, 244, 1964-1970.	1.5	29
39	Optical properties of multilayered Period-Doubling and Rudin-Shapiro porous silicon dielectric heterostructures. Photonics and Nanostructures - Fundamentals and Applications, 2009, 7, 63-68.	2.0	29
40	Pyramidal core-shell quantum dot under applied electric and magnetic fields. Scientific Reports, 2020, 10, 8961.	3.3	29
41	Effects of single vacancy on electronic properties of blue-phosphorene nanotubes. Materials Research Express, 2020, 7, 015042.	1.6	29
42	Î“-X mixing in GaAs-Ga1-xAlxAs quantum wells under hydrostatic pressure. European Physical Journal B, 2008, 62, 257-261.	1.5	28
43	Hydrostatic pressure and electric and magnetic field effects on the binding energy of a hydrogenic donor impurity in InAs PÃ¶schlâ€“Teller quantum ring. Superlattices and Microstructures, 2012, 51, 119-127.	3.1	28
44	Exciton states in conical quantum dots under applied electric and magnetic fields. Optics and Laser Technology, 2021, 139, 106953.	4.6	28
45	Linear and nonlinear optical properties in a double inverse parabolic quantum well under applied electric and magnetic fields. Superlattices and Microstructures, 2014, 66, 129-135.	3.1	27
46	Effects of electromagnetic fields on the nonlinear optical properties of asymmetric double quantum well under intense laser field. Chemical Physics, 2017, 485-486, 81-87.	1.9	27
47	Donor impurity-related photoionization cross section in GaAs cone-like quantum dots under applied electric field. Philosophical Magazine, 2017, 97, 1445-1463.	1.6	27
48	Opto-electronic properties of twisted bilayer graphene quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 112, 36-48.	2.7	27
49	Intense laser field effect on impurity states in a semiconductor quantum well: transition from the single to double quantum well potential. European Physical Journal B, 2011, 81, 441-449.	1.5	26
50	Effects of external electric field on the optical and electronic properties of blue phosphorene nanoribbons: A DFT study. Computational Materials Science, 2017, 135, 43-53.	3.0	26
51	Effects of hydrostatic pressure on the nonlinear optical properties of a donor impurity in a GaAs quantum ring. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 51, 48-54.	2.7	25
52	The effects of the intense laser field on the nonlinear optical properties of a cylindrical Ga1â^'xAlxAs/GaAs quantum dot under applied electric field. Physica B: Condensed Matter, 2015, 474, 15-20.	2.7	25
53	Optical absorption and refractive index changes in a semiconductor quantum ring: Electric field and donor impurity effects. Physica Status Solidi (B): Basic Research, 2016, 253, 744-754.	1.5	24
54	Analysis of light propagation in quasiregular and hybrid Rudinâ€“Shapiro one-dimensional photonic crystals with superconducting layers. Photonics and Nanostructures - Fundamentals and Applications, 2017, 27, 1-10.	2.0	24

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55	Tunable resonance transmission modes in hybrid heterostructures based on porous silicon. Nanoscale Research Letters, 2012, 7, 392.	5.7	23
56	The nonlinear optical absorption and corrections to the refractive index in a GaAs nâ€type deltaâ€doped field effect transistor under hydrostatic pressure. Physica Status Solidi (B): Basic Research, 2012, 249, 146-152.	1.5	23
57	Effect of the hydrostatic pressure on two-dimensional transport in delta-doped systems. European Physical Journal B, 2009, 71, 233-236.	1.5	22
58	The effects of the electric and intense laser field on the binding energies of donor impurity states (1s) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Optical Materials, 2016, 60, 318-323.	3.6	22
59	Effect of the magnetic field on the nonlinear optical rectification and second and third harmonic generation in double<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0006.gif" overflow="scroll"><mml:mi>Î´</mml:mi></mml:math>-doped GaAs quantum wells. Physica B: Condensed Matter, 2017, 525, 30-35.	2.7	22
60	Effect of applied electric field on the nonlinear optical properties of modulation-doped GaAs/Al Ga1-As double quantum well. Superlattices and Microstructures, 2019, 126, 89-97.	3.1	22
61	Light propagation in polytype Thueâ€“Morse structures made of porous silicon. Photonics and Nanostructures - Fundamentals and Applications, 2005, 3, 155-161.	2.0	21
62	Study of the electronic properties of GaAsâ€based atomic layer doped field effect transistor (ALDâ€FET) under the influence of hydrostatic pressure. Physica Status Solidi (B): Basic Research, 2009, 246, 581-585.	1.5	21
63	Magnetic field effects on intraband transitions in elliptically polarized laser-dressed quantum rings. Optical Materials, 2019, 91, 309-320.	3.6	21
64	The polaron in a GaAs/AlAs quantum well. Physica B: Condensed Matter, 1998, 253, 325-334.	2.7	20
65	Exciton-related nonlinear optical properties in cylindrical quantum dots with asymmetric axial potential: combined effects of hydrostatic pressure, intense laser field, and applied electric field. Nanoscale Research Letters, 2012, 7, 508.	5.7	19
66	On-center donor impurity-related nonlinear corrections to optical absorption and refractive index in a two-dimensional quantum ring. Optics Communications, 2012, 285, 5456-5461.	2.1	19
67	Essential properties of a molecular complex confined in ring-like nanostructures under external probes: Magnetic field and hydrostatic pressure. Superlattices and Microstructures, 2014, 67, 207-220.	3.1	19
68	Electron-related linear and nonlinear optical responses in vertically coupled triangular quantum dots. Physica B: Condensed Matter, 2014, 452, 82-91.	2.7	19
69	Exciton-related nonlinear optical absorption and refractive index change in GaAsâ€“Ga1âˆ’xAlxAs double quantum wells. Physica B: Condensed Matter, 2013, 409, 78-82.	2.7	18
70	Warping and interactions of vortices in exciton-polariton condensates. Physical Review B, 2014, 89, .	3.2	18
71	Shallowâ€impurityâ€related binding energy and linear optical absorption in ringâ€shaped quantum dots and quantumâ€well wires under applied electric field. Physica Status Solidi (B): Basic Research, 2015, 252, 786-794.	1.5	17
72	Impact of electron-LO-phonon correction and donor impurity localization on the linear and nonlinear optical properties in spherical core/shell semiconductor quantum dots. Journal of Alloys and Compounds, 2018, 753, 68-78.	5.5	17

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73	Nonlinear optical properties of morse quantum well modulated by THz laser fields. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 113, 86-91.	2.7	17
74	Influence of applied external fields on the nonlinear optical properties of a semi-infinite asymmetric Al Ga1â^'As/GaAs quantum well. Materials Science in Semiconductor Processing, 2021, 123, 105509.	4.0	17
75	Theoretical investigation of linear and nonlinear optical properties in an heterostructure based on triple parabolic barriers: Effects of external fields. Physica B: Condensed Matter, 2021, 607, 412782.	2.7	17
76	Nonlinear optical properties in AlxGa1-xAs/GaAs double-graded quantum wells: The effect of the structure parameter, static electric, and magnetic field. Solid State Communications, 2022, 342, 114647.	1.9	17
77	Calculation of direct and indirect excitons in GaAsâ€“Ga1â^'xAlxAs coupled double quantum wells: Electric and magnetic fields and hydrostatic pressure effects. Solid State Sciences, 2010, 12, 210-221.	3.2	16
78	The two-dimensional square and triangular photonic lattice under the effects of magnetic field, hydrostatic pressure, and temperature. Optical and Quantum Electronics, 2012, 44, 375-392.	3.3	16
79	Donor-impurity-related optical response and electron Raman scattering in GaAs cone-like quantum dots. Physica B: Condensed Matter, 2017, 507, 76-83.	2.7	16
80	Optical properties of a quantum well with Razavy confinement potential: Role of applied external fields. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114919.	2.7	16
81	Simultaneous effects of hydrostatic pressure and applied electric field on the impurity-related self-polarization in GaAs/Ga1â^'xAlxAs multiple quantum wells. Journal of Luminescence, 2011, 131, 1016-1021.	3.1	15
82	Electric field effects on excitons in cylindrical quantum dots with asymmetric axial potential. Influence on the nonlinear optical properties. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1936-1944.	2.7	15
83	Nonlinear optical properties in an asymmetric double Î´-doped quantum well with a Schottky barrier: Electric field effects. Physica Status Solidi (B): Basic Research, 2014, 251, 415-422.	1.5	15
84	Excitonâ€related optical properties in zincâ€blende GaN/InGaN quantum wells under hydrostatic pressure. Physica Status Solidi (B): Basic Research, 2015, 252, 670-677.	1.5	15
85	Effect of the hydrostatic pressure and shellâ€™s Al composition in the intraband absorption coefficient for core/shell spherical GaAs/AlxGa1â^'xAs quantum dots. Materials Science in Semiconductor Processing, 2020, 108, 104906.	4.0	15
86	Tunable band structure in 2D Bravaisâ€“MoirÃ© photonic crystal lattices. Optics Communications, 2020, 459, 125081.	2.1	15
87	Donor impurity energy and optical absorption in spherical sector quantum dots. Heliyon, 2020, 6, e03194.	3.2	15
88	Electronic states in n-type GaAs delta-doped quantum wells under hydrostatic pressure. Brazilian Journal of Physics, 2006, 36, 866-868.	1.4	15
89	The effects of intense laser field and applied electric and magnetic fields on optical properties of an asymmetric quantum well. Physica B: Condensed Matter, 2015, 457, 165-171.	2.7	14
90	The nonlinear optical properties of GaAs-based quantum wells with Kratzerâ€“Fues confining potential: Role of applied static fields and non-resonant laser radiation. Optik, 2019, 185, 881-887.	2.9	14

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91	Simultaneous effects of temperature, pressure, polaronic mass, and conduction band non-parabolicity on a single dopant in conical GaAs-Al_xGa_{1â€“x} As quantum dots. Physica Scripta, 2021, 96, 065808.	2.5	14
92	Numerical simulation of linear and nonlinear optical properties in heterostructure based on triple Gaussian quantum wells: effects of applied external fields and structural parameters. European Physical Journal Plus, 2021, 136, 1.	2.6	14
93	Polaron Effective Mass and Binding Energy in Semiconducting InxGa1?xN. Physica Status Solidi (B): Basic Research, 2001, 223, 843-851.	1.5	13
94	Energy states in GaAs delta-doped field effect transistors under hydrostatic pressure. Microelectronics Journal, 2008, 39, 648-650.	2.0	13
95	Exciton properties in zincblende InGaN-GaN quantum wells under the effects of intense laser fields. Nanoscale Research Letters, 2012, 7, 492.	5.7	13
96	Donor impurity states and related terahertz range nonlinear optical response in GaN cylindrical quantum wires: Effects of external electric and magnetic fields. Journal of Applied Physics, 2014, 115, 213105.	2.5	13
97	Exciton-related nonlinear optical response and photoluminescence in dilute nitrogen <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0027.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>In</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">N</mml:mi></mml:mrow><mml:mrow><mml:mi>y</mml:mi></mml:mrow></mml:msub></mml:math> alloys. Journal of Luminescence, 2014, 154, 559-568.	3.1	13
98	Optical Absorption and Electroabsorption Related to Electronic and Single Dopant Transitions in Holey Elliptical GaAs Quantum Dots. Physica Status Solidi (B): Basic Research, 2018, 255, 1700470.	1.5	13
99	Linear and nonlinear optical properties of a single dopant in GaN conical quantum dot with spherical cap. Philosophical Magazine, 2020, 100, 2503-2523.	1.6	13
100	Polaron effect in single semiconductor heterostructures. Physica B: Condensed Matter, 1989, 159, 413-419.	2.7	12
101	Self-consistent calculation of a delta-doped field effect transistor (Î´-FET). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 47, 279-280.	3.5	12
102	Hole energy levels in p-type Î´-doped Si quantum wells. Solid-State Electronics, 2000, 44, 175-183.	1.4	12
103	Influence of the hydrostatic pressure onto the electronic and transport properties of n-type double -doped GaAs quantum wells. Microelectronics Journal, 2008, 39, 438-441.	2.0	12
104	Excitons in a cylindrical GaAs PÃ¶schlâ€“Teller quantum dot. Physica Status Solidi (B): Basic Research, 2011, 248, 1412-1419.	1.5	12
105	Intersubband linear and nonlinear optical response of the delta-doped SiGe quantum well. Superlattices and Microstructures, 2015, 87, 125-130.	3.1	12
106	Donor-impurity-related second and third harmonic generation and optical absorption in GaAs-(Ga,Al)As 3D coupled quantum dot-rings under applied electric field. Superlattices and Microstructures, 2015, 87, 25-31.	3.1	12
107	Electron and donor-impurity-related Raman scattering and Raman gain in triangular quantum dots under an applied electric field. European Physical Journal B, 2016, 89, 1.	1.5	12
108	Hydrostatic Pressure and Magnetic Field Effects on the Exciton States in Vertically Coupled GaAs-(Ga,Al)As Quantum Dots. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2008, 4, 263-266.	0.4	12

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109	Polarons in wurtzite nitride semiconductors. Solid State Communications, 1999, 109, 767-772.	1.9	11
110	Binding energy of a donor impurity in GaAs <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0011.gif" overflow="scroll"><mml:mi>Î´</mml:mi><mml:mi mathvariant="normal">-</mml:mi><mml:mi>doped</mml:mi></mml:math> systems under electric and magnetic fields, and hydrostatic pressure. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1335-1341.	2.7	11
111	Exciton-related energies of the 1s-like states of excitons in GaAs-Ga1â^'xAlxAs double quantum wells. Journal of Luminescence, 2012, 132, 2525-2530.	3.1	11
112	Excitons in cylindrical GaAsâ€“Ga1â^'xAlxAs quantum dots under applied electric field. Physica B: Condensed Matter, 2012, 407, 2351-2357.	2.7	11
113	Influence of applied electric fields on the electron-related second and third-order nonlinear optical responses in two dimensional elliptic quantum dots. Superlattices and Microstructures, 2015, 83, 157-167.	3.1	11
114	Electronic structure and optical properties of triangular GaAs/AlGaAs quantum dots: Exciton and impurity states. Physica B: Condensed Matter, 2016, 484, 95-108.	2.7	11
115	Electron Raman scattering in a double quantum well tuned by an external nonresonant intense laser field. Optical Materials, 2017, 64, 496-501.	3.6	11
116	Nonlinear optical properties of triple Î´-doped quantum wells: The impact of the applied external fields. Optik, 2019, 180, 387-393.	2.9	11
117	Electron-related nonlinear optical properties of cylindrical quantum dot with the Rosenâ€“Morse axial potential. Communications in Theoretical Physics, 2020, 72, 075505.	2.5	11
118	Propagation of light in quasi-regular dielectric heterostructures with delta-like layers. Microelectronics Journal, 2005, 36, 413-415.	2.0	10
119	AlN, GaN and InN (001) surface electronic band structure. Surface Science, 2006, 600, 2868-2873.	1.9	10
120	A variational method for the description of the pressure-induced mixing in GaAs-based quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1212-1213.	2.7	10
121	Electronic states in a PÃ¶schlâ€“Teller-like quantum well: Combined effects of electric field, hydrostatic pressure, and temperature. Superlattices and Microstructures, 2011, 50, 480-490.	3.1	10
122	Nonlinear absorption coefficient and relative refraction index change for an asymmetrical double <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0022.gif" overflow="scroll"><mml:mi>Î´</mml:mi></mml:math>-doped quantum well in GaAs with a Schottky barrier potential. Physica B: Condensed Matter, 2013, 424, 13-19.	2.7	10
123	Study of electron-related intersubband optical properties in three coupled quantum wells wires with triangular transversal section. Superlattices and Microstructures, 2015, 87, 131-136.	3.1	10
124	On intersubband absorption of radiation in delta-doped QWs. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 74, 400-406.	2.7	10
125	On some new effects in delta-doped QWs. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 66, 162-169.	2.7	10
126	Electronic structure of vertically coupled quantum dot-ring heterostructures under applied electromagnetic probes. A finite-element approach. Scientific Reports, 2021, 11, 4015.	3.3	10

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127	Intensity-dependent nonlinear optical properties in an asymmetric Gaussian potential quantum well-modulated by external fields. Optical and Quantum Electronics, 2021, 53, 1.	3.3	10
128	Combined effects of electric, magnetic, and intense terahertz laser fields on the nonlinear optical properties in GaAs/GaAlAs quantum well with exponentially confinement potential. European Physical Journal Plus, 2021, 136, 1.	2.6	10
129	Impact of different structural defects on fundamental properties of blue phosphorene nanotubes. Computational Condensed Matter, 2022, 32, e00701.	2.1	10
130	Polaron properties of III-V nitride compounds: second-order effects. Journal of Physics Condensed Matter, 1999, 11, 8223-8238.	1.8	9
131	Electronic States of GaN-Based Heterostructures in a Thomas-Fermi Approximation. Physica Status Solidi (B): Basic Research, 2000, 220, 175-179.	1.5	9
132	Photoluminescence energy transitions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0018.gif" overflow="scroll"><mml:mtext>GaAs</mml:mtext><mml:mo>â€“</mml:mo><mml:msub><mml:mrow><mml:mi>Ga</mml:mi></mml:mrow></mml:m double quantum wells: Electric and magnetic fields and hydrostati. Physica B: Condensed Matter, 2009, 404, 5181-5184.	1.7	9
133	Study of direct and indirect exciton states in GaAs-Ga1â^'xAlxAs quantum dots under the effects of intense laser field and applied electric field. European Physical Journal B, 2012, 85, 1.	1.5	9
134	Nonlinear optical rectification associated to exciton states in asymmetric coupled double quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 50, 108-115.	2.7	9
135	Highâ€pressure effects on the intersubband optical absorption coefficient and relative refractive index change in an asymmetric double â€doped GaAs quantum well. Physica Status Solidi (B): Basic Research, 2015, 252, 683-688.	1.5	9
136	States of direct and indirect excitons in strained zinc-blende GaN/InGaN asymmetric quantum wells. Superlattices and Microstructures, 2017, 112, 574-583.	3.1	9
137	Effect of lattice deformation on electronic and optical properties of CuGaSe2: Ab-initio calculations. Thin Solid Films, 2020, 696, 137783.	1.8	9
138	Optical responses in asymmetric hyperbolic-type quantum wells under the effect of external electromagnetic fields. Photonics and Nanostructures - Fundamentals and Applications, 2020, 41, 100833.	2.0	9
139	About possible THz modulator on the base of delta-doped QWs. Superlattices and Microstructures, 2015, 87, 5-11.	3.1	8
140	Carrier states and optical response in coreâ€shell-like semiconductor nanostructures. Philosophical Magazine, 2017, 97, 368-388.	1.6	8
141	Polaronic effects on the off-center donor impurity in AlAs/GaAs/SiO2 spherical core/shell quantum dots. Superlattices and Microstructures, 2017, 111, 457-465.	3.1	8
142	Energy structure and optical response of multi-hilled GaAs quantum ribbon under crossed electric and magnetic fields. Optical Materials, 2018, 83, 333-341.	3.6	8
143	Intersubband optical properties of a laser-dressed asymmetric triple quantum well nanostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113647.	2.7	8
144	Computation of the nonlinear optical properties of n-type asymmetric triple Î´-doped GaAs quantum well. Superlattices and Microstructures, 2019, 130, 76-86.	3.1	8

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145	Nonlinear intersubband absorption coefficient in an Al Ga1âˆ'As/GaAs quantum cascade laser-like profile. Optik, 2020, 201, 163431.	2.9	8
146	Revisiting the adiabatic approximation for bound states calculation in axisymmetric and asymmetrical quantum structures. Superlattices and Microstructures, 2020, 138, 106384.	3.1	8
147	Nonlinear optical properties of n-type asymmetric double $$delta $$-doped quantum wells: role of high-frequency laser radiation, doping concentration and well width. European Physical Journal Plus, 2020, 135, 1.	2.6	8
148	Nonlinear optical properties of a quantum well with inversely quadratic Hellman potential. European Physical Journal B, 2021, 94, 1.	1.5	8
149	Magnetopolaron in a Quantum Well. LOâ€Phonon Confinement Effects. Physica Status Solidi (B): Basic Research, 1990, 160, 117-125.	1.5	7
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