Jing-Lin Xiao

List of Publications by Year
in descending order

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117 papers	1,051 citations	516710 16 h-index	642732 23 g-index
118 all docs	118 docs citations	118 times ranked	54 citing authors

#	Article	IF	Citations
1	Magnetic Field Effect on the Coherence Time of Asymmetric Gaussian Confinement Potential Quantum Well Qubits. Journal of Low Temperature Physics, 2022, 206, 191-198.	1.4	3
2	Asymmetrical semi-exponential potential effect of exciton in strong-coupling alkali halide quantum well. Superlattices and Microstructures, 2022, , 107137.	3.1	2
3	The Properties of the Polaron in III-V Compound Semiconductor Quantum Dots Induced by the Influence of Rashba Spin-Orbit Interaction. International Journal of Theoretical Physics, 2022, 61, 1.	1.2	0
4	Magnetic field and anisotropic parabolic potential effects on ground state binding energy of impurity magnetopolaron in asymmetrical semi-exponential quantum wells. Physica B: Condensed Matter, 2022, , 413992.	2.7	1
5	Studies on the Coherence Time of the Electron Weakly Coupled with Phonons in Asymmetrical Semi-exponential Quantum Well by Employing Linear Combination Operation Method. Journal of Low Temperature Physics, 2021, 202, 196-204.	1.4	6
6	Effect of the anisotropic parabolic potential on the polaronâ€™s properties in asymmetric Gaussian quantum wells. Journal of Nanophotonics, 2021, 15, .	1.0	2
7	Temperature Dependence of the Ground State of Impurity Bound Magneto-Acoustic Polarons in Monolayer Graphene. Journal of Low Temperature Physics, 2021, 203, 65-73.	1.4	6
8	The effect of a parabolic potential on the properties of a strongly coupled polaron in an asymmetric Gaussian quantum well. Journal of the Korean Physical Society, 2021, 79, 30.	0.7	4
9	Parabolic Potential Effect on Binding Energy of Impurity Polaron in Asymmetrical Semi-Exponential Quantum Wells. Iranian Journal of Science and Technology, Transaction A: Science, 2021, 45, 2233.	1.5	2
10	Effects of an anisotropic parabolic potential and Coulomb's impurity potential on the energy characteristics of asymmetrical semi-exponential CsI quantum wells. Communications in Theoretical Physics, 2021, 73, 015701.	2.5	3
11	The influences of hydrogen-like impurities and magnetic field on magnetopolaron in asymmetric semi-exponential and parabolic potential quantum wells. Physica B: Condensed Matter, 2021, 628, 413565.	2.7	1
12	The influences of parabolic potential and magnetism on strongly coupled polaron characteristics within asymmetric Gaussian quantum wells. Modern Physics Letters B, 2021, 35, .	1.9	0
13	Gate-tunabe gap of heated monolayer graphene on substrates. Physica B: Condensed Matter, 2020, 576, 411736.	2.7	5
14	The Optical Polaron Effect on the Coherent Time of a qubit in the RbCl Quantum Dot with Two-Dimensional Pseudoharmonic Potential. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 1237-1240.	1.5	5
15	Qubit coherence effects in a RbCl quantum well with asymmetric Gaussian confinement potential and applied electric field. European Physical Journal Plus, 2020, 135, 1.	2.6	7
16	Temperature Dependence on State Energies and Transition Frequency of Polaron in a Quantum Well with Asymmetric Gaussian Potential: Strong Coupling Method. International Journal of Theoretical Physics, 2020, 59, 3418-3425.	1.2	1
17	Graphene-Substrate Effects on Characteristics of Weak-Coupling Bound Magnetopolaron. Advances in Condensed Matter Physics, 2020, 2020, 1-6.	1.1	1
18	The effect of temperature on strong-coupling magnetopolaron in an asymmetrical Gaussian potential quantum well. International Journal of Modern Physics B, 2020, 34, 2050114.	2.0	8

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19	Coherence effects of the strongly-coupled optical polaron-level qubit in a quantum well with asymmetrical semi-exponential potential. Superlattices and Microstructures, 2020, 145, 106617.	3.1	13
20	Temperature dependence of acoustic phonons on ground state energy of the magnetopolaron in monolayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 121, 114122.	2.7	8
21	The Coherence Time of Asymmetric Gaussian Confinement Potential Quantum Well Qubit. Journal of Low Temperature Physics, 2020, 198, 233-240.	1.4	9
22	Effect of temperature on the first excited state splitting energy of the impurity magneto acoustic polaron in monolayer graphene. Physica Scripta, 2020, 95, 115807.	2.5	2
23	Effects of hydrogen-like impurity on the coherence time of asymmetric Gaussian confinement potential quantum well qubit. Superlattices and Microstructures, 2019, 135, 106279.	3.1	11
24	Vibrational frequency and ground state energy of the strong-coupled- magnetopolaron in a RbCl asymmetrical semi-exponential quantum well at finite temperature. Chinese Journal of Physics, 2019, 61, 190-193.	3.9	6
25	Effects of temperature and magnetic field on the ground state binding energy of the strong coupling magneto-polaron in an RbCl asymmetrical semi-exponential quantum well. International Journal of Modern Physics B, 2019, 33, 1950239.	2.0	6
26	Temperature Effect on the First Excited State Energy and Average Phonon Number of Bound Magnetopolarons in Monolayer Graphene. Journal of Electronic Materials, 2019, 48, 4997-5002.	2.2	1
27	The Properties of the Polaronsâ€™ Ground State in Coupling Spherical Quantum Dots. International Journal of Theoretical Physics, 2019, 58, 2711-2719.	1.2	2
28	The Effects of Electric Field on the Coherence Time of RbCl Quantum Pseudodot Qubit. International Journal of Theoretical Physics, 2019, 58, 2320-2326.	1.2	6
29	The magnetic field effect on the coherence time of qubit in RbCl crystal quantum pseudodot. Optical and Quantum Electronics, 2019, 51, 1.	3.3	9
30	The Effect of Coulomb Impurity Potential on the Coherence Time of RbCl Quantum Pseudodot Qubit. Journal of Low Temperature Physics, 2019, 195, 442-449.	1.4	10
31	Temperature Effect on Vibration Frequency of the Strong-Coupling Polaron in RbCl Asymmetrical Semi-exponential Quantum Wells. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 2013-2016.	1.5	4
32	Effect of hydrogen-like impurity on a qubit in quantum pseudodot at finite temperature. Superlattices and Microstructures, 2019, 125, 233-236.	3.1	4
33	Constructiveness and destructiveness of temperature in asymmetric quantum pseudo dot qubit system. Superlattices and Microstructures, 2018, 118, 92-103.	3.1	14
34	The influences of electric field and temperature on state energies of a strong-coupling polaron in an asymmetric Gaussian potential quantum well. Chinese Journal of Physics, 2018, 56, 561-566.	3.9	8
35	Temperature effect of the bound magnetopolaron on the bandgap in monolayer graphene. Superlattices and Microstructures, 2018, 123, 30-36.	3.1	7
36	Temperature effects of the electron probability density on quantum pseudodot qubit. Optical and Quantum Electronics, 2018, 50, 1.	3.3	7

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37	The Effect of Temperature and Electric Field on a Quantum Pseudodot Qubit. International Journal of Theoretical Physics, 2018, 57, 533-538.	1.2	2
38	Effect of electric field on RbCl quantum pseudodot qubit. Indian Journal of Physics, 2018, 92, 437-440.	1.8	10
39	The first excited state energy of strong coupled bound polaron in monolayer graphene. Superlattices and Microstructures, 2018, 113, 20-24.	3.1	3
40	Influences of temperature on asymmetric quantum dot qubit in Coulombic impunity potential. Indian Journal of Physics, 2018, 92, 587-594.	1.8	12
41	Effects of Temperature on the Ground State Energy of the Strong Coupling Polaron in a RbCl Asymmetrical Semi-Exponential Quantum Well. International Journal of Theoretical Physics, 2018, 57, 3436-3442.	1.2	8
42	The Effects of Hydrogen-Like Impurity and Temperature on State Energies and Transition Frequency of Strong-Coupling Bound Polaron in an Asymmetric Gaussian Potential Quantum Well. Journal of Low Temperature Physics, 2018, 192, 41-47.	1.4	14
43	Temperature and impurity effects on the vibrational frequency of the strongly-coupled polaron in asymmetrical semi-exponential RbCl quantum wells. Superlattices and Microstructures, 2018, 120, 459-462.	3.1	17
44	Temperature effects on state-energy levels and transition frequency of magnetopolaron in asymmetric two-dimensional Gaussian quantum wells. Journal of Nanophotonics, 2018, 12, 1.	1.0	8
45	Influences of the Temperature on the Parabolic Quantum Dot Qubit in the Magnetic Field. Journal of Low Temperature Physics, 2017, 186, 241-249.	1.4	23
46	Temperature and hydrogen-like impurity effects on the excited state of the strong coupling bound polaron in a CsI quantum pseudodot. Chinese Physics B, 2017, 26, 027104.	1.4	9
47	Temperature Effects of Electric Field on the First Excited State of Strong Coupling Polaron in a CsI Quantum Pseudodot. Communications in Theoretical Physics, 2017, 67, 337.	2.5	4
48	Temperature effect on qubit in RbCl quantum rod. Chinese Journal of Physics, 2017, 55, 22-27.	3.9	3
49	Temperature effect of a quantum pseudodot qubit. Chinese Journal of Physics, 2017, 55, 2336-2340.	3.9	0
50	The effects of magnetic field and hydrogen-like impurity on RbCl quantum pseudodot qubit. Optical and Quantum Electronics, 2017, 49, 1.	3.3	5
51	Effect of temperature on the ground state of polaron in an asymmetrical Gaussian potential quantum well. Chinese Journal of Physics, 2017, 55, 1883-1887.	3.9	8
52	The Effect of Magnetic Field on RbCl Asymmetric Quantum Dot Qubit. Iranian Journal of Science and Technology, Transaction A: Science, 2017, 41, 273-276.	1.5	7
53	Influence of Temperature and Magnetic Field on the First Excited State of a Quantum Pseudodot. Journal of Electronic Materials, 2017, 46, 971-973.	2.2	11
54	Effects of Temperature and Magnetic Field on the Coherence Time of a RbCl Parabolic Quantum Dot Qubit. Journal of Electronic Materials, 2017, 46, 439-442.	2.2	19

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55	Effects of temperature on the ground state of a strongly-coupling magnetic polaron and mean phonon number in RbCl quantum pseudodot. Journal of the Korean Physical Society, 2016, 69, 56-59.	0.7	1
56	The Effect of Phonons in RbCl Quantum Pseudodot Qubits. Journal of Electronic Materials, 2016, 45, 3576-3580.	2.2	22
57	The Magnetic Effect of Polaron in Monolayer Graphene. Journal of Low Temperature Physics, 2016, 182, 162-169.	1.4	9
58	Influence of temperature on the excited state of the strong coupling polaron in a CsI quantum pseudodot. Chinese Journal of Physics, 2016, 54, 695-699.	3.9	4
59	The effects of temperature and electric field on the properties of the polaron in a RbCl quantum pseudodot. Optical and Quantum Electronics, 2016, 48, 1.	3.3	8
60	The properties of strong couple bound polaron in monolayer graphene. Superlattices and Microstructures, 2016, 97, 298-302.	3.1	11
61	Temperature Effect of Hydrogen-Like Impurity on the Ground State Energy of Strong Coupling Polaron in a RbCl Quantum Pseudodot. International Journal of Theoretical Physics, 2016, 55, 4918-4923.	1.2	4
62	The effect of electric field on the coherence time of a 2D RbCl parabolic quantum dot qubit. Modern Physics Letters B, 2016, 30, 1650258.	1.9	1
63	Effects of Temperature and Hydrogen-Like Impurity on the Vibrational Frequency of the Polaron in RbCl Parabolic Quantum Dots. Nano, 2016, 11, 1650029.	1.0	8
64	Effects of temperature and hydrogen-like impurity on the coherence time of RbCl parabolic quantum dot qubit. Superlattices and Microstructures, 2016, 90, 308-312.	3.1	35
65	Effects of Temperature and Electric Field on the Coherence Time of a RbCl Parabolic Quantum Dot Qubit. International Journal of Theoretical Physics, 2016, 55, 2936-2941.	1.2	16
66	The Effect of Electric Field on RbCl Asymmetric Gaussian Potential Quantum Well Qubit. International Journal of Theoretical Physics, 2016, 55, 147-154.	1.2	21
67	The effect of magnetic field on RbCl quantum pseudodot qubit. Modern Physics Letters B, 2015, 29, 1550098.	1.9	18
68	Effects of Temperature on First-Excited-State Energy of the Strong Coupling Magnetopolaron in 2D RbCl Parabolic Quantum Dots. Journal of Low Temperature Physics, 2015, 178, 142-148.	1.4	10
69	The Effect of Magnetic Field on an Asymmetrical Gaussian Potential Quantum Well Qubit. Communications in Theoretical Physics, 2015, 63, 159-162.	2.5	16
70	Impurity Effect of Asymmetric Gaussian Potential Quantum Well Qubit. Journal of Low Temperature Physics, 2015, 179, 166-174.	1.4	29
71	The effect of hydrogen-like impurity on RbCl asymmetric quantum dot qubit. Indian Journal of Physics, 2015, 89, 1247-1250.	1.8	6
72	Coulomb Impurity Potential RbCl Quantum Pseudodot Qubit. Journal of Low Temperature Physics, 2015, 180, 315-320.	1.4	22

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73	Temperature effects on excited state of strong-coupling polaron in an asymmetric RbCl quantum dot. Modern Physics Letters B, 2015, 29, 1450261.	1.9	5
74	Effect of impurities on the properties of bound polarons in an asymmetric Gaussian confinement potential quantum well. Journal of the Korean Physical Society, 2015, 67, 1197-1200.	0.7	14
75	Polaron Rashba effect in an asymmetric quantum dot. Low Temperature Physics, 2014, 40, 552-555.	0.6	4
76	Temperature effect on first excited state energy and transition frequency of a strong-coupling polaron in a symmetry RbCl quantum dot. Physica B: Condensed Matter, 2014, 444, 103-105.	2.7	14
77	Properties of a Strong Coupling Bipolaron in an Asymmetric Quantum Dot. Journal of Low Temperature Physics, 2014, 174, 284-291.	1.4	4
78	Influences of temperature and impurity on excited state of bound polaron in the parabolic quantum dots. Superlattices and Microstructures, 2014, 70, 39-45.	3.1	21
79	Effects of Electric Field and Temperature on RbCl Asymmetry Quantum Dot Qubit. Journal of the Physical Society of Japan, 2014, 83, 034004.	1.6	28
80	Effects of Magnetic Field on the Coherence Time of a Parabolic Quantum Dot Qubit. Journal of Low Temperature Physics, 2014, 177, 151-156.	1.4	23
81	The Triangular and Coulomb Bound Potential Quantum Dot Qubit. Journal of Low Temperature Physics, 2013, 172, 266-273.	1.4	3
82	Electric Field Effect on State Energies and Transition Frequency of a Strong-Coupling Polaron in an Asymmetric Quantum Dot. Journal of Low Temperature Physics, 2013, 172, 122-131.	1.4	18
83	Magnetic field effect on state energies and transition frequency of a strong-coupling polaron in an anisotropic quantum dot. Pramana - Journal of Physics, 2013, 81, 865-871.	1.8	12
84	EFFECTS OF ANISOTROPIC PARABOLIC POTENTIAL ON THE ENERGY LEVELS AND TRANSITION FREQUENCY OF STRONG-COUPLING POLARON IN A QUANTUM DOT. International Journal of Nanoscience, 2013, 12, 1350016.	0.7	8
85	The effect of electric field on an asymmetric quantum dot qubit. Quantum Information Processing, 2013, 12, 3707-3716.	2.2	15
86	The Temperature Effects on the Parabolic Quantum Dot Qubit in the Electric Field. Journal of Low Temperature Physics, 2013, 170, 60-67.	1.4	22
87	The effect of temperature and magnetic field on a quantum rod qubit. Quantum Information Processing, 2013, 12, 935-943.	2.2	2
88	Influences of temperature and coulomb bound potential on the properties of quantum rod qubit. Superlattices and Microstructures, 2013, 60, 248-256.	3.1	10
89	THE EFFECT OF ELECTRIC FIELD ON A QUANTUM ROD QUBIT. Modern Physics Letters B, 2012, 26, 1250068.	1.9	3
90	TRANSITION FREQUENCY OF WEAK-COUPLING IMPURITY BOUND MAGNETOPOLARON IN AN ANISOTROPIC QUANTUM DOT. Modern Physics Letters B, 2012, 26, 1150003.	1.9	7

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91	EFFECTS OF SPIN ON THE GROUND-STATE ENERGY OF STRONG-COUPLED BOUND MAGNETOPOLARON IN AN ASYMMETRIC QUANTUM DOT. International Journal of Modern Physics B, 2012, 26, 1250185.	2.0	3
92	OPTICAL PHONON EFFECT IN AN ASYMMETRIC QUANTUM DOT QUBIT. International Journal of Quantum Information, 2012, 10, 1250077.	1.1	31
93	The Effects of Temperature and Electric Field on a Quantum Rod Qubit. Journal of Low Temperature Physics, 2012, 168, 297-305.	1.4	7
94	Coulomb bound potential quantum rod qubit. Superlattices and Microstructures, 2012, 52, 851-860.	3.1	17
95	The effect of impurity on transition frequency of bound polaron in quantum rods. Pramana - Journal of Physics, 2012, 79, 1485.	1.8	0
96	The Effect of Magnetic Field on a Quantum Rod Qubit. Journal of Low Temperature Physics, 2012, 166, 268-278.	1.4	10
97	THE PROPERTIES OF STRONG-COUPLING IMPURITY BOUND MAGNETOPOLARON IN AN ANISOTROPIC QUANTUM DOT. International Journal of Modern Physics B, 2011, 25, 3485-3494.	2.0	12
98	Impurity Effect of a Bound Polaron in Quantum Rods. Journal of Low Temperature Physics, 2011, 163, 302-310.	1.4	8
99	Transition Frequency of Strong-Coupling Magnetopolaron in Quantum Rods. Journal of Low Temperature Physics, 2011, 165, 78-88.	1.4	9
100	Properties of strong-coupling magnetopolaron in quantum rods. Superlattices and Microstructures, 2011, 49, 9-16.	3.1	14
101	Temperature Effect on Magnetopolaronic Vibrational Frequency in an Anisotropic Quantum Dot. Journal of Low Temperature Physics, 2010, 159, 592-600.	1.4	7
102	The Effect of Magnetic on the Properties of a Parabolic Quantum Dot Qubit. Journal of Low Temperature Physics, 2010, 160, 112-118.	1.4	38
103	The Rashba Effect of Polaron in a Parabolic Quantum Dot. Journal of Low Temperature Physics, 2010, 160, 195-200.	1.4	8
104	Temperature Effect of Strong-Coupling Magnetopolaron in Quantum Rods. Journal of Low Temperature Physics, 2010, 160, 209-218.	1.4	5
105	Effects of spin on the properties of strong-coupled bound magnetopolaron in quantum dot. Physica B: Condensed Matter, 2009, 404, 1490-1493.	2.7	6
106	Triangular bound potential quantum dot qubit. Physica B: Condensed Matter, 2009, 404, 1961-1964.	2.7	11
107	The temperature effect of the triangular bound potential quantum dot qubit. Superlattices and Microstructures, 2009, 46, 476-482.	3.1	17
108	The effective mass of strong-coupling polaron in a triangular quantum well induced by the Rashba effect. Physica B: Condensed Matter, 2008, 403, 1933-1936.	2.7	5

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109	The effects of LO phonons on charge qubit. Physica B: Condensed Matter, 2008, 403, 3013-3017.	2.7	6
110	INFLUENCE OF BOTH ELECTRIC AND MAGNETIC FIELDS ON THE BOUND POLARON IN AN ANISOTROPIC QUANTUM DOT. International Journal of Modern Physics B, 2008, 22, 2611-2616.	2.0	14
111	Influence of the interaction between phonons on the properties of the surface magnetopolaron in polar crystals. Physical Review B, 1998, 58, 1678-1688.	3.2	8
112	Temperature Dependence of the Interface Polaron in Polar Crystals. Physica Status Solidi (B): Basic Research, 1993, 176, 117-130.	1.5	6
113	Surface exciton in polyatomic polar crystals. Journal of Physics Condensed Matter, 1992, 4, 5863-5872.	1.8	4
114	Excitons in strong coupling polyatomic crystals. European Physical Journal B, 1991, 83, 367-371.	1.5	2
115	The temperature effect on ground state binding energy of a strong-coupling magnetopolaron in an asymmetrical Gaussian potential quantum well. Modern Physics Letters B, 0, , 2150273.	1.9	0
116	Anisotropic parabolic confinement potential effect on polaron ground state and phonon's number in the RbCl asymmetrical quantum wells. Indian Journal of Physics, 0, , 1.	1.8	2
117	Temperature effect of strong-coupling polaron in RbCl quantum wells with double asymmetric confined potentials. International Journal of Modern Physics B, 0, , .	2.0	0