

# Vn Freire

## List of Publications by Year in descending order

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319  
papers

4,690  
citations

117453

34  
h-index

189595

50  
g-index

320  
all docs

320  
docs citations

320  
times ranked

5165  
citing authors

#	ARTICLE	IF	CITATIONS
1	ACE2-derived peptides interact with the RBD domain of SARS-CoV-2 spike glycoprotein, disrupting the interaction with the human ACE2 receptor. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 5493-5506.	2.0	9
2	Quantum biochemistry, molecular docking, and dynamics simulation revealed synthetic peptides induced conformational changes affecting the topology of the catalytic site of SARS-CoV-2 main protease. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 8925-8937.	2.0	8
3	Gallic acid leads to cell death of <i>Candida albicans</i> by the apoptosis mechanism. <i>Future Microbiology</i> , 2022, 17, 599-606.	1.0	7
4	Optical absorption measurements and optoelectronic DFT calculations for ethanol solvated quercetin and anhydrous/hydrated quercetin crystals. <i>Journal of Solid State Chemistry</i> , 2022, 312, 123242.	1.4	3
5	<i>In silico</i> approach of modified melanoma peptides and their immunotherapeutic potential. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2836-2845.	1.3	3
6	Carbon steel corrosion inhibition in acid medium by imidazole-based molecules: Experimental and molecular modelling approaches. <i>Journal of Molecular Liquids</i> , 2021, 326, 115330.	2.3	23
7	Vibrational spectroscopy and phonon-related properties of monoclinic GABA, a non-proteinogenic inhibitory neurotransmitter amino acid. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1294-1307.	1.2	1
8	Computational approach, scanning electron and fluorescence microscopies revealed insights into the action mechanisms of anticandidal peptide Mo-CBP3-PepIII. <i>Life Sciences</i> , 2021, 281, 119775.	2.0	6
9	New ethionamide boosters and EthR2: structural and energetic analysis. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23233-23241.	1.3	4
10	Insulin degludec and glutamine dipeptide modify glucose homeostasis and liver metabolism in diabetic mice undergoing insulin-induced hypoglycemia. <i>Journal of Applied Biomedicine</i> , 2021, 19, 210-219.	0.6	2
11	CO <sub>2</sub> role on the glycerol conversion over catalyst containing CaO-SiO <sub>2</sub> doped with Ag and Pt. <i>Catalysis Today</i> , 2020, 344, 199-211.	2.2	8
12	mTOR-mLST8 interaction: hot spot identification through quantum biochemistry calculations. <i>New Journal of Chemistry</i> , 2020, 44, 20982-20992.	1.4	5
13	Quantum biochemistry in cancer immunotherapy: New insights about CTLA-4/ipilimumab and design of ipilimumab-derived peptides with high potential in cancer treatment. <i>Molecular Immunology</i> , 2020, 127, 203-211.	1.0	9
14	Novel Si-C compounds with semiconducting and metallic properties: A DFT study. <i>Computational Materials Science</i> , 2020, 183, 109800.	1.4	4
15	Betaine-loaded CaCO <sub>3</sub> microparticles improve survival of vitrified feline preantral follicles through higher mitochondrial activity and decreased reactive oxygen species. <i>Reproduction, Fertility and Development</i> , 2020, 32, 531.	0.1	4
16	Crystal structure and specific location of a germin-like protein with proteolytic activity from <i>Thevetia peruviana</i> . <i>Plant Science</i> , 2020, 298, 110590.	1.7	2
17	Study of the vibrational properties of haloperidol under high-pressure. <i>Vibrational Spectroscopy</i> , 2020, 109, 103103.	1.2	1
18	The urokinase plasminogen activator binding to its receptor: a quantum biochemistry description within an inhomogeneous dielectric function framework with application to uPA peptide inhibitors. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3570-3583.	1.3	19

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19	Antitumor Potential of the Isoflavonoids (+)- and (±)-2,3,9-Trimethoxypterocarpan: Mechanism-of-Action Studies. ACS Medicinal Chemistry Letters, 2020, 11, 1274-1280.	1.3	6
20	Structural and Optoelectronic Properties of the $\hat{1}^{\pm}$ , $\hat{1}^{2-}$ , and $\hat{1}^3$ -Glycine Polymorphs and the Glycine Dihydrate Crystal: A DFT Study. Crystal Growth and Design, 2019, 19, 5204-5217.	1.4	13
21	Ribosomal RNA's Aminoglycoside Hygromycin B Interaction Energy Calculation within a Density Functional Theory Framework. Journal of Physical Chemistry B, 2019, 123, 6421-6429.	1.2	19
22	Structural, electronic, and optical properties of inhomogeneous $\text{Ca}_{1-x}\text{Mg}_x\text{O}$ alloys. Journal of Applied Physics, 2019, 125, 155102.	1.1	5
23	Solid state properties of hydroxyurea: Optical absorption measurement and DFT calculations. Journal of Applied Physics, 2019, 125, 134901.	1.1	4
24	MOLECULAR FRACTIONATION WITH CONJUGATE CAPS STUDY OF THE INTERACTION OF THE ANACARDIC ACID WITH THE ACTIVE SITE OF TRYPANOSOMA CRUZI GAPDH ENZYME: A QUANTUM INVESTIGATION. Asian Journal of Pharmaceutical and Clinical Research, 2019, , 183-189.	0.3	1
25	Rose Bengal incorporated to $\hat{1}^{\pm}$ -cyclodextrin microparticles for photodynamic therapy against the cariogenic microorganism Streptococcus mutans. Photodiagnosis and Photodynamic Therapy, 2019, 25, 111-118.	1.3	14
26	Nanoencapsulation of benznidazole in calcium carbonate increases its selectivity to <i>Trypanosoma cruzi</i> . Parasitology, 2018, 145, 1191-1198.	0.7	24
27	Vibrational Properties of Bulk Boric Acid 2A and 3TPolymorphs and Their Two-Dimensional Layers: Measurements and Density Functional Theory Calculations. Journal of Physical Chemistry A, 2018, 122, 1312-1325.	1.1	10
28	Polarized Raman, FTIR, and DFT study of $\text{Na}_2\text{Ti}_3\text{O}_7$ microcrystals. Journal of Raman Spectroscopy, 2018, 49, 538-548.	1.2	54
29	Carbon fiber/epoxy composites: effect of zinc sulphide coated carbon nanotube on thermal and mechanical properties. Polymer Bulletin, 2018, 75, 1619-1633.	1.7	26
30	Copper promoter effect on acid-base and redox sites of $\text{Fe/Al}_2\text{O}_3$ catalysts and their role in ethanol-acetone mixture conversion. Catalysis Science and Technology, 2018, 8, 443-458.	2.1	6
31	Computational investigation of the $\hat{1}^{\pm}_2\hat{1}^2_1$ integrin-collagen triple helix complex interaction. New Journal of Chemistry, 2018, 42, 17115-17125.	1.4	16
32	Vibrational Modes and Phonon and Thermodynamic Properties of the Metaboric Acid Polymorphs $\hat{1}^{\pm}$ , $\hat{1}^{2-}$ , and $\hat{1}^3$ - $(\text{BOH})_3\text{O}_3$ within a Density Functional Theory Framework. Journal of Physical Chemistry A, 2018, 122, 7628-7645.	1.1	4
33	Cloning of cDNA sequences encoding cowpea (Vigna unguiculata) vicilins: Computational simulations suggest a binding mode of cowpea vicilins to chitin oligomers. International Journal of Biological Macromolecules, 2018, 117, 565-573.	3.6	12
34	Interaction energy profile for diphenyl diselenide in complex with $\hat{1}$ -aminolevulinic acid dehydratase enzyme using quantum calculations and a molecular fragmentation method. Computational Toxicology, 2018, 7, 9-19.	1.8	5
35	Anhydrous proline crystals: Structural optimization, optoelectronic properties, effective masses and Frenkel exciton energy. Journal of Physics and Chemistry of Solids, 2018, 121, 36-48.	1.9	17
36	First-generation antipsychotic haloperidol: optical absorption measurement and structural, electronic, and optical properties of its anhydrous monoclinic crystal by first-principle approaches. New Journal of Chemistry, 2018, 42, 13629-13640.	1.4	9

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37	Explaining urokinase type plasminogen activator inhibition by amino-5-hydroxybenzimidazole and two naphthamidine-based compounds through quantum biochemistry. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22818-22830.	1.3	4
38	Purification, Biochemical Characterization, and Amino Acid Sequence of a Novel Type of Lectin from <i>Aplysia dactylomela</i> Eggs with Antibacterial/Antibiofilm Potential. <i>Marine Biotechnology</i> , 2017, 19, 49-64.	1.1	22
39	RA Differentiation Enhances Dopaminergic Features, Changes Redox Parameters, and Increases Dopamine Transporter Dependency in 6-Hydroxydopamine-Induced Neurotoxicity in SH-SY5Y Cells. <i>Neurotoxicity Research</i> , 2017, 31, 545-559.	1.3	37
40	Quantum binding energy features of the T3-785 collagen-like triple-helical peptide. <i>RSC Advances</i> , 2017, 7, 2817-2828.	1.7	25
41	Production in <i>Pichia pastoris</i> , antifungal activity and crystal structure of a class I chitinase from cowpea ( <i>Vigna unguiculata</i> ): Insights into sugar binding mode and hydrolytic action. <i>Biochimie</i> , 2017, 135, 89-103.	1.3	28
42	cDNA cloning, molecular modeling and docking calculations of L-type lectins from <i>Swartzia simplex</i> var. <i>grandiflora</i> (Leguminosae, Papilionoideae), a member of the tribe Swartzieae. <i>Phytochemistry</i> , 2017, 139, 60-71.	1.4	6
43	The vibrational properties of the bee-killer imidacloprid insecticide: A molecular description. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 185, 245-255.	2.0	20
44	An improved quantum biochemistry description of the glutamate-GluA2 receptor binding within an inhomogeneous dielectric function framework. <i>New Journal of Chemistry</i> , 2017, 41, 6167-6179.	1.4	8
45	Structural, electronic and optical properties of monoclinic Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> from density functional theory calculations: A comparison with XRD and optical absorption measurements. <i>Journal of Solid State Chemistry</i> , 2017, 250, 68-74.	1.4	38
46	Energetic description of cilengitide bound to integrin. <i>New Journal of Chemistry</i> , 2017, 41, 11405-11412.	1.4	20
47	Improved description of the structural and optoelectronic properties of DNA/RNA nucleobase anhydrous crystals: Experiment and dispersion-corrected density functional theory calculations. <i>Physical Review B</i> , 2017, 96, .	1.1	13
48	Encapsulation of nor- $\beta$ -lapachone into poly( $\epsilon$ -CL, $\epsilon$ -CL)-lactide-co-glycolide (PLGA) microcapsules: full characterization, computational details and cytotoxic activity against human cancer cell lines. <i>MedChemComm</i> , 2017, 8, 1993-2002.	3.5	6
49	Trypanocidal activity of mastoparan from <i>Polybia paulista</i> wasp venom by interaction with TcGAPDH. <i>Toxicon</i> , 2017, 137, 168-172.	0.8	21
50	Changing the gap type of solid state boric acid by heating: a dispersion-corrected density functional study of $I^{\pm}$ , $I^{2-}$ , and $I^{3-}$ -metaboric acid polymorphs. <i>New Journal of Chemistry</i> , 2017, 41, 15533-15544.	1.4	4
51	Understanding the corrosion inhibition of carbon steel and copper in sulphuric acid medium by amino acids using electrochemical techniques allied to molecular modelling methods. <i>Corrosion Science</i> , 2017, 115, 41-55.	3.0	189
52	Controlled Release of Nor- $\beta$ -lapachone by PLGA Microparticles: A Strategy for Improving Cytotoxicity against Prostate Cancer Cells. <i>Molecules</i> , 2016, 21, 873.	1.7	17
53	Angiotensin Converting Enzyme Regulates Cell Proliferation and Migration. <i>PLoS ONE</i> , 2016, 11, e0165371.	1.1	25
54	Role of Cu, Ni and Co metals in the acidic and redox properties of Mo catalysts supported on Al <sub>2</sub> O <sub>3</sub> spheres for glycerol conversion. <i>Catalysis Science and Technology</i> , 2016, 6, 4986-5002.	2.1	33

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55	A quantum biochemistry model of the interaction between the estrogen receptor and the two antagonists used in breast cancer treatment. Computational and Theoretical Chemistry, 2016, 1089, 21-27.	1.1	25
56	Structural, Electronic, and Optical Properties of Bulk Boric Acid $\langle i \rangle 2A \langle /i \rangle$ and $\langle i \rangle 3T \langle /i \rangle$ Polymorphs: Experiment and Density Functional Theory Calculations. Crystal Growth and Design, 2016, 16, 6631-6640.	1.4	13
57	Explaining RANKL inhibition by OPG through quantum biochemistry computations and insights into peptide-design for the treatment of osteoporosis. RSC Advances, 2016, 6, 84926-84942.	1.7	7
58	Two Binding Geometries for Risperidone in Dopamine D3 Receptors: Insights on the Fast-Off Mechanism through Docking, Quantum Biochemistry, and Molecular Dynamics Simulations. ACS Chemical Neuroscience, 2016, 7, 1331-1347.	1.7	14
59	DFT Calculations with van der Waals Interactions of Hydrated Calcium Carbonate Crystals $\text{CaCO}_3 \cdot n\text{H}_2\text{O}$ : Structural, Electronic, Optical, and Vibrational Properties. Journal of Physical Chemistry A, 2016, 120, 5752-5765.	1.1	31
60	Computational electronic structure of the bee killer insecticide imidacloprid. New Journal of Chemistry, 2016, 40, 10353-10362.	1.4	12
61	A quantum chemistry investigation of a potential inhibitory drug against the dengue virus. RSC Advances, 2016, 6, 56562-56570.	1.7	28
62	Modeling of laccase inhibition by formetanate pesticide using theoretical approaches. Bioelectrochemistry, 2016, 108, 46-53.	2.4	11
63	Elucidating the high- $k$ insulator $\text{Al}_2\text{O}_3$ direct/indirect energy band gap type through density functional theory computations. Chemical Physics Letters, 2015, 637, 172-176.	1.2	40
64	Electronic transport in methylated fragments of DNA. Applied Physics Letters, 2015, 107, 203701.	1.5	9
65	Quantum molecular modelling of ibuprofen bound to human serum albumin. RSC Advances, 2015, 5, 49439-49450.	1.7	42
66	Vibrational Spectroscopy and Phonon-Related Properties of the $\langle scp \rangle l \langle /scp \rangle$ -Aspartic Acid Anhydrous Monoclinic Crystal. Journal of Physical Chemistry A, 2015, 119, 11791-11803.	1.1	22
67	Structural basis of ConM binding with resveratrol, an anti-inflammatory and antioxidant polyphenol. International Journal of Biological Macromolecules, 2015, 72, 1136-1142.	3.6	15
68	A quantum biochemistry investigation of willardiine partial agonism in AMPA receptors. Physical Chemistry Chemical Physics, 2015, 17, 13092-13103.	1.3	31
69	Simple synthesis of $\text{Al}_2\text{O}_3$ sphere composite from hybrid process with improved thermal stability for catalytic applications. Materials Chemistry and Physics, 2015, 160, 119-130.	2.0	22
70	Coal Fly Ash Ceramics: Preparation, Characterization, and Use in the Hydrolysis of Sucrose. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	26
71	Optical Absorption of the Antitrypanocidal Drug Benznidazole in Water. Molecules, 2014, 19, 4145-4156.	1.7	10
72	Conductance of single microRNAs chains related to the autism spectrum disorder. Europhysics Letters, 2014, 107, 68006.	0.7	11

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73	Cubic superparamagnetic nanoparticles of NiFe <sub>2</sub> O <sub>4</sub> via fast microwave heating. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	12
74	L-asparagine crystals with wide gap semiconductor features: Optical absorption measurements and density functional theory computations. <i>Journal of Chemical Physics</i> , 2014, 140, 124511.	1.2	15
75	Phosphate group vibrational signatures of the osteoporosis drug alendronate. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 801-806.	1.2	14
76	262 Improved cytotoxic activity of Nor- <sup>12</sup> -lapachone-loaded PLGA microcapsules in PC3M prostate cancer cell line. <i>European Journal of Cancer</i> , 2014, 50, 87.	1.3	0
77	DNA-based nanobiostructured devices: The role of quasiperiodicity and correlation effects. <i>Physics Reports</i> , 2014, 535, 139-209.	10.3	88
78	The quantum biophysics of the isoniazid adduct NADH binding to its InhA reductase target. <i>New Journal of Chemistry</i> , 2014, 38, 2946.	1.4	18
79	Carbon-based nanorings sliding along inner coaxial nanotubes: Möbius topology effects in damping gigahertz oscillations. <i>Journal of Applied Physics</i> , 2014, 116, 124311.	1.1	4
80	Exploiting the Reduction of Haloperidol: Electrochemical and Computational Studies Using Silver Amalgam and HMDE Electrodes. <i>Electrochimica Acta</i> , 2014, 137, 564-574.	2.6	7
81	Antimicrobial effect of <i>Dinoponera quadriceps</i> (Hymenoptera: Formicidae) venom against <i>Staphylococcus aureus</i> strains. <i>Journal of Applied Microbiology</i> , 2014, 117, 390-396.	1.4	23
82	Antipsychotic Haloperidol Binding to the Human Dopamine D3 Receptor: Beyond Docking Through QM/MM Refinement Toward the Design of Improved Schizophrenia Medicines. <i>ACS Chemical Neuroscience</i> , 2014, 5, 1041-1054.	1.7	37
83	Resveratrol prevents social deficits in animal model of autism induced by valproic acid. <i>Neuroscience Letters</i> , 2014, 583, 176-181.	1.0	115
84	Sensitive voltammetric responses and mechanistic insights into the determination of residue levels of endosulfan in fresh foodstuffs and raw natural waters. <i>Microchemical Journal</i> , 2013, 110, 40-47.	2.3	10
85	A comparative density functional theory study of electronic structure and optical properties of -aminobutyric acid and its cocrystals with oxalic and benzoic acid. <i>Chemical Physics Letters</i> , 2013, 587, 20-24.	1.2	17
86	Assessing the Role of Water on the Electronic Structure and Vibrational Spectra of Monohydrated Aspartic Acid Crystals. <i>Crystal Growth and Design</i> , 2013, 13, 4844-4851.	1.4	22
87	An ab initio explanation of the activation and antagonism strength of an AMPA-sensitive glutamate receptor. <i>RSC Advances</i> , 2013, 3, 14988.	1.7	12
88	Quantum biochemistry study of the T3-785 tropocollagen triple-helical structure. <i>Chemical Physics Letters</i> , 2013, 559, 88-93.	1.2	31
89	Electrochemical and Monte Carlo studies of self-assembled trans-[Fe(cyclam)(NCS) <sub>2</sub> ] <sup>+</sup> complex ion on gold surface as electrochemical sensor for nitric oxide. <i>Electrochimica Acta</i> , 2013, 91, 1-10.	2.6	8
90	Immobilized invertase studies on glass-ceramic support from coal fly ashes. <i>Chemical Engineering Journal</i> , 2013, 214, 91-96.	6.6	13

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91	<sc>L</sc>-Serine Anhydrous Crystals: Structural, Electronic, and Optical Properties by First-Principles Calculations, and Optical Absorption Measurement. Crystal Growth and Design, 2013, 13, 2793-2802.	1.4	27
92	Dimethomorph electrooxidation: Analytical determination in grape-derived samples and mechanistic aspects. Electrochimica Acta, 2013, 107, 350-357.	2.6	10
93	Quantum analysis/improvement of antipsychotic's docking results. FASEB Journal, 2013, 27, 810.9.	0.2	0
94	Structural and optoelectronic properties, and infrared spectrum of cubic BaSnO <sub>3</sub> from first principles calculations. Journal of Applied Physics, 2012, 112, .	1.1	54
95	Four-level levodopa adsorption on C <sub>60</sub> fullerene for transdermal and oral administration: a computational study. RSC Advances, 2012, 2, 8306.	1.7	13
96	Inactivation of Ovine Cyclooxygenase-1 by Bromoaspirin and Aspirin: A Quantum Chemistry Description. Journal of Physical Chemistry B, 2012, 116, 3270-3279.	1.2	20
97	The DNA electronic specific heat at low temperature: The role of aperiodicity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2413-2417.	0.9	13
98	Electronic specific heat of an $\hat{L}^3$ -helical polypeptide and its biochemical variants. Chemical Physics Letters, 2012, 542, 123-127.	1.2	3
99	Explaining statin inhibition effectiveness of HMG-CoA reductase by quantum biochemistry computations. Physical Chemistry Chemical Physics, 2012, 14, 1389-1398.	1.3	61
100	Optical absorption and DFT calculations in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \text{L} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -aspartic acid anhydrous crystals: Charge carrier effective masses point to semiconducting behavior. Physical Review B, 2012, 86, .	1.1	51
101	Direct electrochemical analysis of dexamethasone endocrine disruptor in raw natural waters. Journal of the Brazilian Chemical Society, 2012, 23, 110-119.	0.6	13
102	Performance of invertase immobilized on glass-ceramic supports in batch bioreactor. Chemical Engineering Journal, 2012, 187, 341-350.	6.6	8
103	Structural and electronic properties of Sr <sub>x</sub> Ba <sub>1-x</sub> SnO <sub>3</sub> from first principles calculations. Journal of Solid State Chemistry, 2012, 187, 186-194.	1.4	47
104	The new flow system approach in packed bed reactor applicable for immobilized enzyme. Journal of Molecular Catalysis B: Enzymatic, 2012, 79, 1-7.	1.8	12
105	Quantum Biochemistry Description of the Human Dopamine D <sub>3</sub> Receptor in Complex with the Selective Antagonist Eticlopride. Journal of Proteomics and Bioinformatics, 2012, 05, .	0.4	15
106	Anhydrous crystals of DNA bases are wide gap semiconductors. Journal of Chemical Physics, 2011, 134, 175101.	1.2	45
107	Two-Level Adsorption of Ibuprofen on C <sub>60</sub> Fullerene for Transdermal Delivery: Classical Molecular Dynamics and Density Functional Theory Computations. Journal of Physical Chemistry C, 2011, 115, 24501-24511.	1.5	24
108	A renormalization approach to describe charge transport in quasiperiodic dangling backbone ladder (DBL)-DNA molecules. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3993-3996.	0.9	14

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109	Monoclinic and orthorhombic cysteine crystals are small gap insulators. Chemical Physics Letters, 2011, 512, 208-210.	1.2	19
110	Density functional theory study of the electronic properties of naphthofuranquinone compounds with antitrypanocidal activity. International Journal of Quantum Chemistry, 2011, 111, 1270-1279.	1.0	3
111	Structural, optoelectronic, infrared and Raman spectra of orthorhombic SrSnO <sub>3</sub> from DFT calculations. Journal of Solid State Chemistry, 2011, 184, 921-928.	1.4	85
112	Charge transport in fibrous/not fibrous $\beta$ -helical and (5Q,7Q) $\beta$ variant peptides. Applied Physics Letters, 2011, 98, .	1.5	10
113	Structural, electronic and optical properties of orthorhombic CdGeO <sub>7</sub> from first principles calculations. Journal of Solid State Chemistry, 2010, 183, 437-443.	1.4	7
114	Graphene Nanoflakes: Thermal Stability, Infrared Signatures, and Potential Applications in the Field of Spintronics and Optical Nanodevices. Journal of Physical Chemistry C, 2010, 114, 17472-17485.	1.5	89
115	Structural, electronic and optical properties of ilmenite and perovskite CdSnO <sub>3</sub> from DFT calculations. Journal of Physics Condensed Matter, 2010, 22, 435801.	0.7	20
116	$CdXO_3$ (X = C, Si, Ge, Sn, Pb) electronic band structures. Chemical Physics Letters, 2009, 480, 273-277.	1.2	22
117	Triclinic CdSiO <sub>3</sub> structural, electronic, and optical properties from first principles calculations. Journal Physics D: Applied Physics, 2009, 42, 155406.	1.3	22
118	Defects in Graphene-Based Twisted Nanoribbons: Structural, Electronic, and Optical Properties. Langmuir, 2009, 25, 4751-4759.	1.6	26
119	C <sub>60</sub> -derived nanobaskets: stability, vibrational signatures, and molecular trapping. Nanotechnology, 2009, 20, 395701.	1.3	8
120	The influence of 4-mercaptopyridine layer instability on rapid electron transfer reaction. Journal of Electroanalytical Chemistry, 2008, 619-620, 26-30.	1.9	6
121	Thermal effect on the dielectric function and small polaron hopping conduction in organic molecular crystals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3725-3728.	0.9	6
122	Band structure anisotropy effects on the ultrafast electron transport in 4H-SiC. Solid State Communications, 2008, 145, 397-400.	0.9	1
123	Möbius and twisted graphene nanoribbons: Stability, geometry, and electronic properties. Journal of Chemical Physics, 2008, 128, 164719.	1.2	54
124	Adsorption of Ascorbic Acid on the C <sub>60</sub> Fullerene. Journal of Physical Chemistry B, 2008, 112, 14267-14272.	1.2	30
125	First-principles calculations of structural, electronic and optical properties of orthorhombic CaPbO <sub>3</sub> . Journal Physics D: Applied Physics, 2008, 41, 065405.	1.3	10
126	Optical absorption and electronic band structure first-principles calculations of $\beta$ -glycine crystals. Physical Review B, 2008, 77, .	1.1	37



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127	Crystal structure of Dioclea rostrata lectin: Insights into understanding the pH-dependent dimer-tetramer equilibrium and the structural basis for carbohydrate recognition in Diocleinae lectins. Journal of Structural Biology, 2008, 164, 177-182.	1.3	26
128	Correlation between Enterococcus faecalis Biofilms Development Stage and Quantitative Surface Roughness Using Atomic Force Microscopy. Microscopy and Microanalysis, 2008, 14, 150-158.	0.2	13
129	Si-SiO <sub>2</sub> -Si and Si-CaCO <sub>3</sub> -Si core-shell nanoparticles: Tuning light emission from infrared to ultraviolet. Journal of Applied Physics, 2007, 102, 023712.	1.1	0
130	CaO first-principles electronic properties and MOS device simulation. Journal Physics D: Applied Physics, 2007, 40, 1655-1658.	1.3	12
131	Transient transport in III-nitrides: interplay of momentum and energy relaxation times. Journal of Physics Condensed Matter, 2007, 19, 346214.	0.7	14
132	Two different incorporation sites of manganese in single-crystalline monohydrated L-asparagine studied by electron paramagnetic resonance. Physical Review B, 2007, 75, .	1.1	8
133	High lattice temperature effects on the ultrafast electron transport in 4H- $\alpha$ -SiC. Journal of Applied Physics, 2007, 102, 053710.	1.1	1
134	Consequences of nonstoichiometric SiO <sub>x</sub> interfacial layers on the electrical characterization of metal-oxide-semiconductor devices. Journal of Applied Physics, 2007, 101, 034509.	1.1	0
135	Electronic and optical properties of CaCO <sub>3</sub> calcite, and excitons in Si@CaCO <sub>3</sub> and CaCO <sub>3</sub> @SiO <sub>2</sub> core-shell quantum dots. Journal Physics D: Applied Physics, 2007, 40, 5747-5752.	1.3	36
136	Deformation induced martensite in an AISI 301LN stainless steel: characterization and influence on pitting corrosion resistance. Materials Research, 2007, 10, 359-366.	0.6	94
137	Hole-versus electron-based operations in SiGe nanocrystal nonvolatile memories. Applied Physics Letters, 2007, 90, 223504.	1.5	18
138	Structural, electronic, and optical absorption properties of orthorhombic CaSnO <sub>3</sub> through ab initio calculations. Journal of Physics Condensed Matter, 2007, 19, 106214.	0.7	29
139	First-principles calculations of structural, electronic, and optical absorption properties of CaCO <sub>3</sub> Vaterite. Chemical Physics Letters, 2007, 435, 59-64.	1.2	60
140	Dielectric function spectra from a nondegenerate polaron gas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 365, 478-482.	0.9	1
141	AFM and hydrodynamic electrochemical characterization of the self-assembled 1,4-dithiane on gold surface. Journal of Electroanalytical Chemistry, 2007, 603, 21-26.	1.9	6
142	Immobilization of urease on vapour phase stain etched porous silicon. Process Biochemistry, 2007, 42, 429-433.	1.8	25
143	Acoustic phonon transmission spectra in piezoelectric AlN/GaN Fibonacci phononic crystals. European Physical Journal B, 2007, 58, 379-387.	0.6	34
144	Influence of graded interfaces on the exciton energy of type-I and type-II Si/Si <sub>1-x</sub> Ge quantum wires. Journal of Materials Science, 2007, 42, 2314-2317.	1.7	5

#	ARTICLE	IF	CITATIONS
145	Production and characterization of the cashew ( <i>Anacardium occidentale</i> L.) peduncle bagasse ashes. <i>Journal of Food Engineering</i> , 2007, 79, 1432-1437.	2.7	44
146	Identification of lamivudine conformers by Raman scattering measurements and quantum chemical calculations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 43, 1885-1889.	1.4	14
147	Ab initio structural, electronic and optical properties of orthorhombic. <i>Journal of Solid State Chemistry</i> , 2007, 180, 974-980.	1.4	20
148	Structural, electronic, and optical properties of ZrO <sub>2</sub> from ab initio calculations. <i>Journal of Applied Physics</i> , 2006, 100, 104103.	1.1	162
149	Crystal structure of a lectin from <i>Canavalia maritima</i> (ConM) in complex with trehalose and maltose reveals relevant mutation in ConA-like lectins. <i>Journal of Structural Biology</i> , 2006, 154, 280-286.	1.3	34
150	Energy levels in Si and SrTiO <sub>3</sub> -based quantum wells with charge image effects. <i>Brazilian Journal of Physics</i> , 2006, 36, 347-349.	0.7	7
151	Crystallization and preliminary X-ray diffraction analysis of the lectin from <i>Dioclea rostrata</i> Benth seeds. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 166-168.	0.7	1
152	Structural and electronic properties of CaSiO <sub>3</sub> triclinic. <i>Chemical Physics Letters</i> , 2006, 427, 113-116.	1.2	26
153	Structural, electronic, and optical properties of CaCO <sub>3</sub> aragonite. <i>Chemical Physics Letters</i> , 2006, 430, 293-296.	1.2	38
154	An improved description of the dielectric breakdown in oxides based on a generalized Weibull distribution. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 361, 209-215.	1.2	29
155	Acoustic phonon dynamics in strained cubic and hexagonal GaN/Al <sub>2</sub> O <sub>3</sub> superlattices. <i>European Physical Journal B</i> , 2006, 51, 583-591.	0.6	5
156	Quantum mechanical ab initio calculations of the Raman scattering from psoralens. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 8325-8336.	0.7	3
157	Electronic and optical properties of CaCO <sub>3</sub> porous nanoparticles. <i>Journal of Applied Physics</i> , 2006, 100, 034314.	1.1	4
158	Large image potential effects in Si <sup>+</sup> /SrTiO <sub>3</sub> and Si <sup>+</sup> /HfO <sub>2</sub> two-dimensional quantum well structures. <i>Applied Physics Letters</i> , 2006, 88, 242114.	1.5	6
159	Theoretical investigation of excitons in type-I and type-II Si <sup>+</sup> /Si <sup>+</sup> <sub>1-x</sub> Gex quantum wires. <i>Physical Review B</i> , 2006, 74, .	1.1	12
160	Optical properties of ellipsoidal CdSe quantum dots. <i>Brazilian Journal of Physics</i> , 2006, 36, 438-439.	0.7	8
161	Si- and SiGe- high- $k$ oxide nanostructures for optoelectronic devices. , 2005, , .		0
162	Sporopollenin Nanostructure of <i>Ilex paraguariensis</i> A.St.Hil Pollen Grains. <i>Microscopy and Microanalysis</i> , 2005, 11, 78-81.	0.2	1

#	ARTICLE	IF	CITATIONS
163	Interface effects in modulation-doped GaAs/AlGaAs single quantum wells and superlattices. <i>Microelectronics Journal</i> , 2005, 36, 359-361.	1.1	3
164	Statistical analysis of topographic images of nanoporous silicon and model surfaces. <i>Microelectronics Journal</i> , 2005, 36, 1011-1015.	1.1	7
165	Structural and optical properties of CaO. <i>Microelectronics Journal</i> , 2005, 36, 1058-1061.	1.1	19
166	Interface optical phonon localization in graded GaN thin films. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 336, 259-263.	0.9	1
167	Localization and fractal spectra of optical phonon modes in quasiperiodic structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 349, 259-270.	1.2	10
168	Optical phonon modes in graded III-V nitride quantum wells. <i>Solid State Communications</i> , 2005, 135, 308-313.	0.9	4
169	Intraband absorption and Stark effect in silicon nanocrystals. <i>Physical Review B</i> , 2005, 72, .	1.1	50
170	Lifetime of quasi-bound states in open semiconductor quantum structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 3031-3034.	0.8	1
171	Numerical simulation of Si <sub>1-x</sub> Gex/HfO <sub>2</sub> /Si MOS devices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 2955-2957.	0.8	0
172	Excitons in type-I type-II strained Si/Si <sub>1-x</sub> Gex graded quantum well. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 2958-2961.	0.8	0
173	Carrier confinement in AlGaN non-abrupt heterostructured nanowires. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 2365-2368.	0.8	1
174	Band Structure Derived Properties of HfO <sub>2</sub> from First Principles Calculations. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	18
175	Exciton Confinement in Si/TiO <sub>2</sub> 0-2D Systems. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
176	Stark Shift and Permanent Dipole Moment of Vertically Confined Excitons in InAs/GaAs Ring-Like Quantum Dots. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
177	Anomalous Stark Effect in Intraband Absorption of Silicon Nanocrystals. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
178	Towards Using Multiferroism in Optoelectronics and Spintronics: Tunneling, Confinement and Optical Properties of Si/BiMnO <sub>3</sub> Systems. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
179	Remarkably Strong Image Potential Effects in SrTiO <sub>3</sub> /Si and HfO <sub>2</sub> /Si Tunneling Structures. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0
180	The Role of Non-abrupt Interfaces in SiC MOS Devices: Quantum Mechanical Simulations and Experiments. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	0

#	ARTICLE	IF	CITATIONS
181	The impact of high-k dielectrics in nanocrystal flash memories. , 2005, 5732, 547.		2
182	Feasibility of IR-to-UV detection in SiC/SiO <sub>2</sub> heterostructures. , 2005, , .		0
183	Nonlinear transport properties of doped III-N and GaAs polar semiconductors: A comparison. Journal of Applied Physics, 2005, 98, 043703.	1.1	19
184	Nonlinear transport properties of III-nitrides in electric field. Journal of Applied Physics, 2005, 98, 043702.	1.1	24
185	Slab lenses from simple anisotropic media. Physical Review B, 2005, 72, .	1.1	40
186	Dielectric mismatch effects on the electronic and optical properties of GaN/HfO <sub>2</sub> quantum wells. Applied Physics Letters, 2005, 87, 171904.	1.5	4
187	Gate inversion effect in Si <sub>1-x</sub> Gex/HfO <sub>2</sub> /Si metal-oxide-semiconductor devices. Applied Physics Letters, 2005, 86, 243507.	1.5	2
188	Molecular Signature in the Photoluminescence of $\alpha$ -Glycine, L-Alanine and L-Asparagine Crystals: Detection, ab initio Calculations, and Bio-sensor Applications. AIP Conference Proceedings, 2005, , .	0.3	21
189	Intraband absorption in silicon nanocrystals: The combined effect of shape and crystal orientation. Applied Physics Letters, 2005, 87, 031913.	1.5	11
190	Numerical simulation of the optical properties of SiC/SiO <sub>2</sub> quantum dots. Brazilian Journal of Physics, 2004, 34, 623-625.	0.7	0
191	Contribution of the charge image potential to carrier confinement in graded Si-based quantum wells. Brazilian Journal of Physics, 2004, 34, 684-686.	0.7	0
192	Exciton confinement in InGaN/GaN cylindrical quantum wires. Brazilian Journal of Physics, 2004, 34, 702-704.	0.7	13
193	Hole mobility in zincblende GaN. Journal of Applied Physics, 2004, 95, 4914-4917.	1.1	22
194	Effective masses and complex dielectric function of cubic HfO <sub>2</sub> . Applied Physics Letters, 2004, 85, 5022-5024.	1.5	37
195	Crystallization and preliminary X-ray diffraction analysis of the lectin from <i>Canavalia gladiata</i> seeds. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1493-1495.	2.5	13
196	Concentration effects on the Raman scattering of AlGaIn/GaN superlattices. Surface Science, 2004, 557, 73-79.	0.8	0
197	Electronic spectra of GaAs/GaxAl <sub>1-x</sub> As superlattice with impurities arranged according to a Fibonacci sequence. Applied Surface Science, 2004, 234, 33-37.	3.1	1
198	Optical properties of zincblende GaN/BN cylindrical nanowires. Applied Surface Science, 2004, 234, 50-53.	3.1	7

#	ARTICLE	IF	CITATIONS
199	$\hat{\Gamma}(r)$ type model for interface defects in Si/SiO <sub>2</sub> nanocrystals. Applied Surface Science, 2004, 234, 218-221.	3.1	1
200	Inhomogeneous broadening arising from interface fluctuations in strained In <sub>x</sub> Ga <sub>1-x</sub> As/GaAs and (In <sub>u</sub> Ga <sub>1-u</sub> As) <sub>v</sub> (InP) <sub>1-v</sub> /InP quantum wells. Applied Surface Science, 2004, 234, 38-44.	3.1	5
201	Conduction band anisotropy effects on the confined electron states of SiC/SiO <sub>2</sub> quantum dots. Applied Surface Science, 2004, 237, 549-554.	3.1	0
202	Differences of Stark shift behavior in Si/SiO <sub>2</sub> quantum wells and quantum dots. Applied Surface Science, 2004, 237, 544-548.	3.1	0
203	A Raman scattering-based method to probe the carrier drift velocity in semiconductors: Application to gallium nitride. Applied Physics Letters, 2004, 85, 4055-4057.	1.5	9
204	Electronic properties of a quasi-two-dimensional electron gas in semiconductor quantum wells under intense laser fields. Physical Review B, 2004, 70, .	1.1	54
205	Interface properties in ZnSe/ZnS based strained superlattices and quantum wells. Applied Surface Science, 2004, 237, 261-265.	3.1	3
206	Effects of interfacial profiles on quantum levels in In <sub>x</sub> Ga <sub>1-x</sub> As/GaAs graded spherical quantum dots. Applied Surface Science, 2004, 237, 266-269.	3.1	7
207	Band structure anisotropy effects on the hole transport transient in 4H-SiC. Microelectronics Journal, 2003, 34, 717-719.	1.1	3
208	Interfacial fluctuations effects on confined excitons in single GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. Surface Science, 2003, 532-535, 774-779.	0.8	5
209	Strong graded interface related exciton energy blueshift in In <sub>x</sub> Ga <sub>1-x</sub> N/GaN quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 22-23.	1.3	6
210	Exciton stark shift in graded GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 220-221.	1.3	0
211	Exciton-based photoluminescence broadening in graded ZnSe/ZnS <sub>x</sub> Se <sub>1-x</sub> strained quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 225-226.	1.3	3
212	Recombination energy changes due to shell-like defects in Si/SiO <sub>2</sub> quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 73-76.	1.3	1
213	Lattice dynamic properties of interfaced InAs/GaAs superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 266-269.	1.3	0
214	Optical phonons dispersion relation in Si/3C-SiC heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 270-271.	1.3	0
215	Effect of residual acceptors on electron mobility in single asymmetric quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 322-323.	1.3	3
216	Optical gain in non-abrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> quantum well lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 600-601.	1.3	1

#	ARTICLE	IF	CITATIONS
217	A multi-defect initialization-based percolation model: a successful scheme to explain dielectric breakdown in MOS devices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 17, 645-647.	1.3	1
218	Transport Transient of Electrons in Wurtzite InN: The Effect of the Band Structure Anisotropy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 368-372.	0.8	1
219	Confined excitons in Si/SrTiO <sub>3</sub> quantum wells. <i>Microelectronics Journal</i> , 2003, 34, 507-509.	1.1	1
220	Evidence of magnetic polaronic states in La <sub>0.70</sub> Sr <sub>0.30</sub> Mn <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> manganites. <i>Physical Review B</i> , 2003, 67, .	1.1	33
221	Effects of crystallographic orientations on the charging time in silicon nanocrystal flash memories. <i>Applied Physics Letters</i> , 2003, 82, 2685-2687.	1.5	19
222	Hot-phonon bottleneck in the photoinjected plasma in GaN. <i>Applied Physics Letters</i> , 2003, 82, 2455-2457.	1.5	20
223	Full-relativistic calculations of the SrTiO <sub>3</sub> carrier effective masses and complex dielectric function. <i>Applied Physics Letters</i> , 2003, 82, 3074-3076.	1.5	53
224	Mobility in n-doped wurtzite III-Nitrides. <i>Materials Research</i> , 2003, 6, 01-04.	0.6	8
225	Three-dimensional self-consistent simulation of the charging time response in silicon nanocrystal flash memories. <i>Journal of Applied Physics</i> , 2002, 92, 6182-6187.	1.1	47
226	Interface effects in the Raman scattering of InN/AlN superlattices. <i>Physical Review B</i> , 2002, 66, .	1.1	2
227	Terahertz complex mobility of hot electrons in 3C- and 6H-SiC at high temperature. <i>Journal of Applied Physics</i> , 2002, 91, 5208-5212.	1.1	2
228	AC hot carrier transport in 3C- and 6H-SiC in the terahertz frequency and high lattice temperature regime. <i>Brazilian Journal of Physics</i> , 2002, 32, 442-444.	0.7	0
229	Exciton Confinement in GaN/AlGa <sub>N</sub> Quantum Wells Enhanced by Non-Abrupt Interfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 234, 730-733.	0.7	0
230	The Role of Interfaced Modes in the Raman Spectra of AlN/InN Superlattices. <i>Physica Status Solidi A</i> , 2002, 194, 506-509.	1.7	2
231	Magnetic confinement of electrons into quantum wires and dots on a liquid helium surface. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 12, 946-949.	1.3	2
232	Strong graded interface related piezoelectric polarization weakening effects on exciton confinement in single In <sub>x</sub> Ga <sub>1-x</sub> N/GaN quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 1106-1110.	1.3	5
233	Exciton energy broadening due to interface fluctuations in ZnSe/ZnS <sub>x</sub> Se <sub>1-x</sub> strained quantum wells. <i>Applied Surface Science</i> , 2002, 190, 247-251.	3.1	3
234	The role of multiple damaged layers at the Si/SiO <sub>2</sub> interface on the dielectric breakdown of MOS capacitors. <i>Applied Surface Science</i> , 2002, 190, 35-38.	3.1	2

#	ARTICLE	IF	CITATIONS
235	The influence of graded interfaces in the electronic spectrum of nanometer silicon dots. Applied Surface Science, 2002, 190, 166-170.	3.1	3
236	A percolation based dielectric breakdown model with random changes in the dielectric constant. Physica A: Statistical Mechanics and Its Applications, 2002, 305, 351-359.	1.2	5
237	Theory of exciton-polariton in GaN thin films. Solid State Communications, 2002, 124, 109-112.	0.9	4
238	Strong exciton energy blue shift in graded wurtzite and zincblende GaN/Al <sub>0.2</sub> Ga <sub>0.8</sub> N single quantum wells. Journal of Crystal Growth, 2002, 246, 341-346.	0.7	6
239	Interface-related effects on confined excitons in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As single quantum wells. Applied Surface Science, 2002, 190, 191-194.	3.1	8
240	Band structure effects on the transient electron transport in wurtzite InN. Journal of Crystal Growth, 2002, 246, 320-324.	0.7	7
241	Exciton trapping in a periodically modulated magnetic field. Brazilian Journal of Physics, 2002, 32, 310-313.	0.7	1
242	Electron mobility in nitride materials. Brazilian Journal of Physics, 2002, 32, 439-441.	0.7	17
243	Interface effects on the vibrational properties of 3C-InN/3C-AlN superlattices. Brazilian Journal of Physics, 2002, 32, 445-447.	0.7	0
244	Urbach's tail in III-nitrides under an electric field. Journal of Applied Physics, 2001, 90, 1879-1882.	1.1	20
245	Scaling properties of the electronic structure of quasiperiodic GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As superwires and superdots. Physica B: Condensed Matter, 2001, 305, 38-47.	1.3	2
246	Phase transition in WO <sub>3</sub> microcrystals obtained by sintering process. Journal of Raman Spectroscopy, 2001, 32, 695-699.	1.2	36
247	Exciton trapping in a hybrid ferromagnetic/semiconductor magnetic antidot. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 2038-2039.	1.0	2
248	Strong interface localization of phonons in nonabrupt InN/GaN superlattices. Physical Review B, 2001, 64, .	1.1	8
249	Coexistence of triclinic and monoclinic phases in WO <sub>3</sub> ceramics. Journal of Raman Spectroscopy, 2000, 31, 451-454.	1.2	58
250	Ultrafast electron drift velocity overshoot in 3C-SiC. Solid State Communications, 2000, 113, 539-542.	0.9	9
251	Dynamics of SiO <sub>2</sub> /SiO <sub>x</sub> /Si multilayer growth and interfacial effects on silicon quantum well confinement properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 74, 188-192.	1.7	4
252	Smooth interface effects on the confinement properties of GaSb/Al <sub>x</sub> Ga <sub>1-x</sub> Sb quantum wells. Applied Surface Science, 2000, 166, 336-340.	3.1	0

#	ARTICLE	IF	CITATIONS
253	Strong exciton energy blue shift in annealed Si/SiO <sub>2</sub> single quantum wells. Applied Surface Science, 2000, 166, 469-474.	3.1	4
254	Time evolution of SiO <sub>2</sub> /Si interface defects and dopant passivation in MOS capacitors. Microelectronic Engineering, 2000, 51-52, 567-574.	1.1	8
255	Confined electron and shallow donor states in graded GaAs/AlGaAs spherical quantum dots. European Physical Journal B, 2000, 14, 337-348.	0.6	3
256	Fine structure of excitons in a quantum well in the presence of a nonhomogeneous magnetic field. Physical Review B, 2000, 62, 7316-7324.	1.1	12
257	Smooth interface effects on the Raman scattering in zinc-blende AlN/GaN superlattices. Physical Review B, 2000, 61, 13060-13063.	1.1	14
258	Pressure effects in the Raman spectrum of WO <sub>3</sub> microcrystals. Physical Review B, 2000, 62, 3699-3703.	1.1	35
259	Strong interface-induced changes on the numerical calculated Raman scattering in Si <sub>3</sub> C/SiC superlattices. Applied Physics Letters, 2000, 77, 4316-4318.	1.5	4
260	High Temperature Effects on the Terahertz Mobility of Hot Electrons in 3C-SiC and 6H-SiC. Materials Science Forum, 2000, 338-342, 773-776.	0.3	0
261	Structured Ultrafast Carrier Drift Velocity in Photoexcited Zincblende GaN. Materials Science Forum, 2000, 338-342, 1579-1582.	0.3	5
262	Velocity overshoot onset in nitride semiconductors. Applied Physics Letters, 2000, 76, 1893-1895.	1.5	32
263	Effect of ageing on x-ray induced dopant passivation in MOS capacitors. Semiconductor Science and Technology, 2000, 15, 794-798.	1.0	9
264	Confinement of two-dimensional excitons in a nonhomogeneous magnetic field. Physical Review B, 2000, 61, 2895-2903.	1.1	21
265	Electric field effects on the confinement properties of GaN/Al <sub>x</sub> Ga <sub>1-x</sub> N zincblende and wurtzite nonabrupt quantum wells. Brazilian Journal of Physics, 1999, 29, 670-674.	0.7	2
266	Sign inversion of the Stark shift in single non-abrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. Journal of Physics Condensed Matter, 1999, 11, 5593-5602.	0.7	7
267	Interface-related restriction to potential depth estimates for single quantum wells. Journal of Physics Condensed Matter, 1999, 11, 1927-1934.	0.7	0
268	Interface-related exciton-energy blueshift in GaN/Al <sub>x</sub> Ga <sub>1-x</sub> N zinc-blende and wurtzite single quantum wells. Physical Review B, 1999, 60, 5705-5713.	1.1	41
269	Graded interface effects on the carriers confinement in single GaN/Al <sub>x</sub> Ga <sub>1-x</sub> N wurtzite quantum wells. Solid State Communications, 1999, 110, 587-592.	0.9	4
270	Velocity overshoot in zincblende and wurtzite GaN. Solid State Communications, 1999, 110, 469-472.	0.9	20



#	ARTICLE	IF	CITATIONS
271	Energy level broadening control in quantum dots by interfacial doping. Solid State Communications, 1999, 113, 115-119.	0.9	1
272	The effect of high Landau subbands filling on the hot-electron magneto-transport ultrafast transient in InSb. Physica B: Condensed Matter, 1999, 269, 28-33.	1.3	0
273	Microstructural and electrical properties of sintered tungsten trioxide. Journal of Materials Science, 1999, 34, 1031-1035.	1.7	23
274	Band structure of a cylindrical GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As superwire. Superlattices and Microstructures, 1999, 25, 221-225.	1.4	7
275	Doping profile effects on modulation-doped single nonabrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. Superlattices and Microstructures, 1999, 25, 307-311.	1.4	3
276	Blue and red Stark shifts in single Si/SiO <sub>2</sub> quantum wells. Superlattices and Microstructures, 1999, 25, 377-381.	1.4	2
277	Hot Electron Dynamics in Zinblende and Wurtzite GaN. Physica Status Solidi (B): Basic Research, 1999, 216, 35-39.	0.7	21
278	High-Frequency Electron Mobility in GaN. Physica Status Solidi (B): Basic Research, 1999, 216, 737-742.	0.7	1
279	High temperature behavior of subpicosecond electron transport transient in 3C- and 6H-SiC. Brazilian Journal of Physics, 1999, 29, 785-789.	0.7	3
280	Interface effects on the resonant tunnelling in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As double-quantum-well triple-barriers. Microelectronic Engineering, 1998, 43-44, 191-195.	1.1	2
281	The influence of interfacial growth patterns on the transmission of electrons through nonabrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As double-barriers. Microelectronic Engineering, 1998, 43-44, 371-375.	1.1	0
282	Accumulation layer and interface effects in doped nonabrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As single quantum wells. Superlattices and Microstructures, 1998, 23, 1015-1018.	1.4	1
283	Energy States in Graded Cylindrical GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As Quantum Wires. Physica Status Solidi (B): Basic Research, 1998, 210, 75-80.	0.7	1
284	Resonances in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As Heterojunctions Due to Si Shallow Donors Related Protrusions. Physica Status Solidi (B): Basic Research, 1998, 210, 683-687.	0.7	0
285	Energy level splitting in doped nonabrupt double quantum well. Solid State Communications, 1998, 106, 559-562.	0.9	4
286	Energy level broadening due to size fluctuation in quantum dots. Solid State Communications, 1998, 108, 803-807.	0.9	0
287	Electrostatic surface shape resonances of a finite number of ridges. European Physical Journal B, 1998, 3, 119-123.	0.6	5
288	Interface-related band-bending effects on intersubband transitions in doped single quantum wells. Journal of Physics Condensed Matter, 1998, 10, 9681-9686.	0.7	0

#	ARTICLE	IF	CITATIONS
289	Strong interface effects in graded SiO <sub>2</sub> /Si/SiO <sub>2</sub> quantum wells. Journal of Applied Physics, 1998, 84, 5369-5371.	1.1	5
290	High-magnetic-field effects on the terahertz mobility of hot electrons inn-type InSb. Physical Review B, 1998, 57, 11872-11874.	1.1	14
291	Effects of interfacial charges on semiconductor films. Physical Review B, 1998, 57, 12275-12280.	1.1	1
292	Emission spectrum in driven two-level systems. Physical Review A, 1998, 58, 1531-1536.	1.0	7
293	Dissipative quantum tunneling of two-level systems driven by dc-ac fields. Physical Review E, 1998, 58, 2632-2635.	0.8	2
294	Doping effects on the high-frequency mobility of minority carriers in p-GaAs. Journal of Applied Physics, 1998, 84, 1405-1407.	1.1	0
295	Form of the quantum kinetic-energy operator with spatially varying effective mass. Physical Review B, 1997, 55, 1326-1328.	1.1	54
296	High magnetic field effects on the ultrafast transport transient of hot electrons in InSb. Applied Physics Letters, 1997, 70, 1879-1881.	1.5	9
297	The influence of growth patterns on the transmission properties of nonabrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As heterojunctions. Superlattices and Microstructures, 1996, 20, 155-161.	1.4	1
298	SURFACE PLASMONS ON UNIAXIAL CRYSTALS WITH GRATING SURFACES. Surface Review and Letters, 1996, 03, 1387-1392.	0.5	0
299	Transmission in compositionally nonabrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As heterojunctions: beyond the constant interfacial effective-mass approximation. Superlattices and Microstructures, 1995, 17, 123-128.	1.4	5
300	Interface effects in the high electric field resonances of single Al <sub>x</sub> Ga <sub>1-x</sub> As non-abrupt barriers in GaAs. Superlattices and Microstructures, 1995, 17, 235-239.	1.4	2
301	Accumulation layer and interface effects in doped nonabrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As heterojunctions. Superlattices and Microstructures, 1995, 17, 351.	1.4	1
302	Energy levels of single nonabrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. Superlattices and Microstructures, 1995, 17, 397.	1.4	4
303	The influence of interfacial growth patterns on the transmission properties of carriers through nonabrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As single barriers. Superlattices and Microstructures, 1995, 17, 411.	1.4	1
304	Electron transmission through a single nonabrupt GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As barrier subjected to an electric field. Physical Review B, 1995, 52, 5777-5780.	1.1	7
305	Transmission in symmetrical GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As double-barriers with compositionally nonabrupt interfaces. Superlattices and Microstructures, 1994, 15, 203.	1.4	4
306	A new analytical method for the calculation of the transmission coefficient of carriers through non-abrupt semiconductor heterostructures. Superlattices and Microstructures, 1993, 14, 221-226.	1.4	0

#	ARTICLE	IF	CITATIONS
307	The Thermalization Process of Photoexcited Electrons and Holes in the Second Kinetic Stage of Relaxation. <i>Physica Status Solidi (B): Basic Research</i> , 1993, 180, 213-222.	0.7	3
308	Transmission coefficient of electrons through a single graded barrier. <i>Physical Review B</i> , 1993, 48, 8446-8449.	1.1	8
309	Ultrafast relaxation of hot minority carriers in $\text{p}^+\text{-GaAs}$ . <i>Journal of Applied Physics</i> , 1993, 74, 2122-2124.	1.1	0
310	On the transmission coefficient of graded composition $\text{GaAs}/\text{Al}_x\text{Ga}_{1-x}\text{As}$ heterojunctions under an electric field. <i>Journal of Applied Physics</i> , 1992, 71, 4076-4078.	1.1	2
311	On the coherent tunneling current in semiconductor heterostructures. <i>Solid State Communications</i> , 1992, 82, 363-365.	0.9	1
312	High field transient of photoexcited GaAs electrons and holes with acoustic and to-phonon momentum scattering. <i>Solid State Communications</i> , 1992, 84, 927-930.	0.9	1
313	Resonant peaks in the transmission coefficient of compositionally nonabrupt $\text{GaAs}/\text{Al}_x\text{Ga}_{1-x}\text{As}$ heterojunctions. <i>Superlattices and Microstructures</i> , 1992, 11, 17-22.	1.4	12
314	High-field transport transient of minority carriers in $\text{p}^+\text{-GaAs}$ . <i>Applied Physics Letters</i> , 1991, 59, 558-560.	1.5	13
315	Nonlinear transport in far-from-equilibrium semiconductors. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1990, 12, 1387-1404.	0.4	3
316	The time response of photoexcited carriers to strong high-frequency and constant electric fields. <i>Solid State Communications</i> , 1990, 76, 631-634.	0.9	2
317	Ultrafast mobility in photoinjected polar semiconductors. <i>Physical Review B</i> , 1989, 39, 13264-13275.	1.1	28
318	Transport in photoexcited hot carriers systems. <i>Solid-State Electronics</i> , 1988, 31, 497-499.	0.8	2
319	Structured ultrafast mobility in highly photoexcited semiconductors. <i>Solid State Communications</i> , 1988, 66, 683-687.	0.9	5