Augusto Belendez

List of Publications by Year
in descending order

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383	4,615	126907	189892
papers	citations	33 h-index	50 g-index

391	391	391	1479
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adulterant Detection in Peppermint Oil by Means of Holographic Photopolymers Based on Composite Materials with Liquid Crystal. Polymers, 2022, 14, 1061.	4.5	0
2	PHYSICS LABORATORY PRACTICES. AN EXPERIENCE AND APPROACH FOR PHYSICS TEACHING. INTED Proceedings, 2022, , .	0.0	0
3	STUDIES ON THE COMPLEXITY OF THE BRAZILIAN HIGH SCHOOL EXAM. INTED Proceedings, 2022, , .	0.0	0
4	Polarimetric analysis of cross-talk phenomena induced by the pixelation in PA-LCoS devices. Optics and Laser Technology, 2022, 152, 108125.	4.6	4
5	Processing of Holographic Hydrogels in Liquid Media: A Study by High-Performance Liquid Chromatography and Diffraction Efficiency. Polymers, 2022, 14, 2089.	4.5	4
6	Green and wide acceptance angle solar concentrators. Optics Express, 2022, 30, 25366.	3.4	6
7	Closed-form solutions for the quadratic mixed-parity nonlinear oscillator. Indian Journal of Physics, 2021, 95, 1213-1224.	1.8	2
8	RUBRIC AS A COMPETENCE-ASSESSMENT TOOL AND CUSTOMIZED FEEDBACK: PLATFORMS FACILITATING ELABORATION. , 2021, , .		0
9	HOW DO PUPILS STUDY PHYSICS? DO THEY REALLY USE TEXTBOOKS?. , 2021, , .		0
10	Validation of Fresnelâ€“Kirchhoff Integral Method for the Study of Volume Dielectric Bodies. Applied Sciences (Switzerland), 2021, 11, 3800.	2.5	0
11	Modeling liquid crystal on silicon microdisplays for holographic storage and polarization control. , 2021, , .		0
12	Precise-Integration Time-Domain Formulation for Optical Periodic Media. Materials, 2021, 14, 7896.	2.9	1
13	An indirect measurement of the speed of light in a General Physics Laboratory. Journal of King Saud University - Science, 2020, 32, 2797-2802.	3.5	1
14	Analysis of the Imaging Characteristics of Holographic Waveguides Recorded in Photopolymers. Polymers, 2020, 12, 1485.	4.5	15
15	Phase-Shift Optimization in AA/PVA Photopolymers by High-Frequency Pulsed Laser. Polymers, 2020, 12, 1887.	4.5	0
16	Accurate, Efficient and Rigorous Numerical Analysis of 3D H-PDLC Gratings. Materials, 2020, 13, 3725.	2.9	4
17	Linear Quadrupole Magnetic Field Measured with a Smartphone. Physics Teacher, 2020, 58, 182-185.	0.3	7
18	Aberration-Based Quality Metrics in Holographic Lenses. Polymers, 2020, 12, 993.	4.5	5

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19	Roadmap on holography. Journal of Optics (United Kingdom), 2020, 22, 123002.	2.2	54
20	Analytical modeling of blazed gratings on two-dimensional pixelated liquid crystal on silicon devices. Optical Engineering, 2020, 59, 1.	1.0	7
21	Holographic transmission gratings stored in a hydrogel matrix. , 2020, , .		0
22	DESIGN AND IMPLEMENTATION OF RUBRIC FOR THE EVALUATION BY COMPETENCES IN PHYSICAL SCIENCES: CASE STUDY PUC-MG, BRAZIL. , 2020, , .		0
23	BRAZILIAN NATIONAL PROGRAM OF EDUCATIONAL BOOKS FOR PHYSICS, CHEMISTRY, AND BIOLOGY: CONSOLIDATION OF AN EDITORIAL POLICY. INTED Proceedings, 2020, , .	0.0	0
24	3-dimensional modelling of the DOEs formation in PVA/AA photopolymers. , 2020, , .		1
25	Qualitative disorder measurements from backscattering spectra through an optical fiber. Biomedical Optics Express, 2020, 11, 6038.	2.9	0
26	Unitary matrix approach for a precise voltage dependent characterization of reflective liquid crystal devices by average Stokes polarimetry. Optics Letters, 2020, 45, 5732.	3.3	8
27	Development of a laboratory practice for physics introductory courses using a rubric for evaluation by competences. Journal of Physics: Conference Series, 2019, 1287, 012025.	0.4	0
28	LED-Cured Reflection Gratings Stored in an Acrylate-Based Photopolymer. Polymers, 2019, 11, 632.	4.5	12
29	Holographic Characteristics of Photopolymers Containing Different Mixtures of Nematic Liquid Crystals. Polymers, 2019, 11, 325.	4.5	13
30	Influence of Tert-Butylthiol and Tetrahydrofuran on the Holographic Characteristics of a Polymer Dispersed Liquid Crystal: A Research Line Toward a Specific Sensor for Natural Gas and Liquefied Petroleum Gas. Polymers, 2019, 11, 254.	4.5	4
31	Complex Diffractive Optical Elements Stored in Photopolymers. Polymers, 2019, 11, 1920.	4.5	8
32	Holographic waveguides in photopolymers. Optics Express, 2019, 27, 827.	3.4	36
33	Combining average molecular tilt and flicker for management of depolarized light in parallel-aligned liquid crystal devices for broadband and wide-angle illumination. Optics Express, 2019, 27, 5238.	3.4	11
34	RUBRIC ELABORATION TO EVALUATE BY COMPETENCES A PRACTICE OF PHYSICS LABORATORY: PARALLEL-PLATE CAPACITOR. , 2019, , .		0
35	RESULTS OF APPLICATION OF A RUBRIC FOR THE EVALUATION BY COMPETENCES: MEASUREMENT OF THE MAGNETIC FIELD OF SMALL MAGNETS WITH A SMARTPHONE. INTED Proceedings, 2019, , .	0.0	0
36	Study of the imaging characteristics of holographic waveguides. , 2019, , .		0

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37	Reflection holograms stored in an environment-friendly photopolymer. , 2019, , .		0
38	Characterization of registered holographic lenses in a photopolymer compatible with the environment. Optica Pura Y Aplicada, 2019, 52, 1-10.	0.1	1
39	Blazed grating theory to minimize the non-idealities in LCoS devices. , 2019, , .		1
40	Predictive management of polarized light in liquid crystal devices based on average and flicker molecular tilt. , 2019, , .		0
41	Efficient and stable holographic gratings stored in an environmentally friendly photopolymer. , 2019, , .		1
42	Analysis of holographic polymer-dispersed liquid crystals (HPDLCs) for tunable low frequency diffractive optical elements recording. Optical Materials, 2018, 76, 295-301.	3.6	12
43	Exact solutions for an oscillator with anti-symmetric quadratic nonlinearity. Indian Journal of Physics, 2018, 92, 495-506.	1.8	1
44	Numerical Analysis of H-PDLC Using the Split-Field Finite-Difference Time-Domain Method. Polymers, 2018, 10, 465.	4.5	4
45	Simplified physical modeling of parallel-aligned liquid crystal devices at highly non-linear tilt angle profiles. Optics Express, 2018, 26, 12723.	3.4	5
46	Anamorphic and Local Characterization of a Holographic Data Storage System with a Liquid-Crystal on Silicon Microdisplay as Data Pager. Applied Sciences (Switzerland), 2018, 8, 986.	2.5	2
47	Holographic Lenses in an Environment-Friendly Photopolymer. Polymers, 2018, 10, 302.	4.5	17
48	Diffractive and Interferometric Characterization of Nanostructured Photopolymer for Sharp Diffractive Optical Elements Recording. Polymers, 2018, 10, 518.	4.5	0
49	Computational split-field finite-difference time-domain evaluation of simplified tilt-angle models for parallel-aligned liquid-crystal devices. Optical Engineering, 2018, 57, 1.	1.0	3
50	CASE-BASED LEARNING IN MATERIALS ENGINEERING: THE OUIJA BOARD OF THE DEVIL. , 2018, , .		0
51	AN INNOVATIVE PRACTICE IN THE PHYSICS LABORATORY: RADIOFREQUENCY ELECTROMAGNETIC FIELDS PERSONAL EXPOSURE. INTED Proceedings, 2018, , .	0.0	0
52	THE USE OF CONCEPTUAL MAPS IN SOLVING PHYSICS PROBLEMS. , 2018, , .		0
53	ELABORATION OF RUBRICS FOR THE EVALUATION BY COMPETENCES OF PHYSICS IN THE UNIVERSITY. INTED Proceedings, 2018, , .	0.0	2
54	EVALUANDO COMPETENCIAS EN FÃSICA MEDIANTE RÃšBRICAS. Revista REAMEC, 2018, 6, 142-151.	0.1	1

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55	Versatile simplified physical model for parallel aligned liquid crystal devices. , 2018, , .		0
56	Multiplexed holograms recorded in a low toxicity Biophotopol photopolymer. Proceedings of SPIE, 2017, , .	0.8	0
57	Shrinkage measurement for holographic recording materials. , 2017, , .		1
58	Generation of diffractive optical elements onto photopolymer using liquid crystal on silicon displays. , 2017, , .		0
59	Peristrophic multiplexed holograms recorded in a low toxicity photopolymer. Optical Materials Express, 2017, 7, 133.	3.0	20
60	Modeling Diffractive Lenses Recording in Environmentally Friendly Photopolymer. Polymers, 2017, 9, 278.	4.5	3
61	Additives Type Schiffâ€™s Base as Modifiers of the Optical Response in Holographic Polymer-Dispersed Liquid Crystals. Polymers, 2017, 9, 298.	4.5	5
62	Closed-Form Exact Solutions for the Unforced Quintic Nonlinear Oscillator. Advances in Mathematical Physics, 2017, 2017, 1-14.	0.8	8
63	Polarimetric and diffractive evaluation of 3.74 micron pixel-size LCoS in the telecommunications C-band. , 2017, , .		2
64	TEACHING AND LEARNING ACTIVE PHYSICS WITHIN FRAMEWORK OF COMPETENCIES. INTED Proceedings, 2017, , .	0.0	1
65	CHANGE IN THE PERCEPTION OF MEDICAL STUDENTS ABOUT THE USEFULNESS AND IMPORTANCE OF SOCIAL MEDIA IN THEIR TRAINING AND THEIR FUTURE WORK AFTER RECEIVING A SPECIALIZED TRAINING COURSE. , 2017, , .		0
66	GO WHERE THE STUDENTS ARE: GROUPS IN FACEBOOK TO IMPROVE COMMUNICATION BETWEEN STUDENTS AND EDUCATORS. INTED Proceedings, 2017, , .	0.0	0
67	THE SCIENTIFIC LEARNING ACCORDING TO VIGOTSKY. , 2017, , .		1
68	Diffractive lenses in biocompatible photopolymers using LCoS. , 2017, , .		0
69	SF-FDTD analysis of a predictive physical model for parallel aligned liquid crystal devices. , 2017, , .		1
70	Influence of 4,4â€™-azobis (4-cyanopentanoic acid) in Transmission and Reflection Gratings Stored in a PVA/AA Photopolymer. Materials, 2016, 9, 194.	2.9	4
71	Blazed Gratings Recorded in Absorbent Photopolymers. Materials, 2016, 9, 195.	2.9	10
72	Dimensional changes in slanted diffraction gratings recorded in photopolymers. Optical Materials Express, 2016, 6, 3455.	3.0	19

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73	Analysis of volume holograms using the technique of Green's tensor. , 2016, , .		0
74	Effective modeling of PA-LCoS devices and application in data storage in photopolymers. , 2016, , .		0
75	Cylindrical diffractive lenses recorded on PVA/AA photopolymers. Proceedings of SPIE, 2016, , .	0.8	0
76	Analysis of holographic data storage using a PA-LCoS device. Proceedings of SPIE, 2016, , .	0.8	0
77	Exact solution for the unforced Duffing oscillator with cubic and quintic nonlinearities. Nonlinear Dynamics, 2016, 86, 1687-1700.	5.2	38
78	Influence of the spatial frequency on the diffractive optical elements fabrication in PDLCs. , 2016, , .		0
79	PVA/AA photopolymers and PA-LCoS devices combined for holographic data storage. Proceedings of SPIE, 2016, , .	0.8	2
80	Biophotopolâ€™s energetic sensitivity improved in 300Î¼m layers by tuning the recording wavelength. Optical Materials, 2016, 52, 111-115.	3.6	16
81	Reply to Comment on â€˜Measurement of the magnetic field of small magnets with a smartphone: a very economical laboratory practice for introductory physics coursesâ€™. European Journal of Physics, 2016, 37, 028002.	0.6	3
82	Solutions for Conservative Nonlinear Oscillators Using an Approximate Method Based on Chebyshev Series Expansion of the Restoring Force. Acta Physica Polonica A, 2016, 130, 667-678.	0.5	7
83	A CONCEPTUAL MAP ABOUT ALTERNATING CURRENT CIRCUITS. INTED Proceedings, 2016, , .	0.0	2
84	LEARNING PHYSICS WITH WOLFRAM ALPHA. , 2016, , .		0
85	Estudio experimental de la inducciÃ³n electromagnÃ©tica entre dos bobinas: Dependencia con la corriente elÃ©ctrica. Revista Brasileira De Ensino De Fisica, 2015, 37, 1313.	0.2	1
86	Characterization and comparison of different photopolymers for low spatial frequency recording. Optical Materials, 2015, 44, 18-24.	3.6	19
87	Multi-GPU and multi-CPU accelerated FDTD scheme for vibroacoustic applications. Computer Physics Communications, 2015, 191, 43-51.	7.5	6
88	Influence of index matching on AA/PVA photopolymers for low spatial frequency recording. Applied Optics, 2015, 54, 3132.	2.1	9
89	Predictive capability of average Stokes polarimetry for simulation of phase multilevel elements onto LCoS devices. Applied Optics, 2015, 54, 1379.	1.8	24
90	Measurement of the magnetic field of small magnets with a smartphone: a very economical laboratory practice for introductory physics courses. European Journal of Physics, 2015, 36, 065002.	0.6	66

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91	Effective angular and wavelength modeling of parallel aligned liquid crystal devices. Optics and Lasers in Engineering, 2015, 74, 114-121.	3.8	12
92	Exploring binary and ternary modulations on a PA-LCoS device for holographic data storage in a PVA/AA photopolymer. Optics Express, 2015, 23, 20459.	3.4	21
93	Static and dynamic effects of flicker in phase multilevel elements on LCoS devices. , 2015, , .		3
94	Study of the index matching for different photopolymers. , 2015, , .		1
95	Two diffusion photopolymer for sharp diffractive optical elements recording. Optics Letters, 2015, 40, 3221.	3.3	22
96	Diffraction efficiency improvement in high spatial frequency holographic gratings stored in PVA/AA photopolymers: several ACPA concentrations. Journal of Optics (United Kingdom), 2015, 17, 015401.	2.2	2
97	Nonlinear oscillator with power-form elastic-term: Fourier series expansion of the exact solution. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 134-148.	3.3	14
98	Binary Intensity Modulation and Hybrid Ternary Modulation Applied to Multiplexing Objects Using Holographic Data Storage on a PVA/AA Photopolymer. International Journal of Polymer Science, 2014, 2014, 1-8.	2.7	3
99	Experimental Conditions to Obtain Photopolymerization Induced Phase Separation Process in Liquid Crystal-Photopolymer Composite Materials under Laser Exposure. International Journal of Polymer Science, 2014, 2014, 1-5.	2.7	4
100	Influence of Thickness on the Holographic Parameters of H-PDLC Materials. International Journal of Polymer Science, 2014, 2014, 1-7.	2.7	1
101	Beta Value Coupled Wave Theory for Nonslanted Reflection Gratings. Scientific World Journal, The, 2014, 2014, 1-7.	2.1	1
102	Averaged Stokes polarimetry applied to characterize parallel-aligned liquid crystal on silicon displays. , 2014, , .		1
103	Influence of the photopolymer properties in the fabrication of diffractive optical elements. , 2014, , .		1
104	Retardance and flicker modeling and characterization of electro-optic linear retarders by averaged Stokes polarimetry. Optics Letters, 2014, 39, 1011.	3.3	37
105	Averaged Stokes polarimetry applied to evaluate retardance and flicker in PA-LCoS devices. Optics Express, 2014, 22, 15064.	3.4	42
106	Model of low spatial frequency diffractive elements recorded in photopolymers during and after recording. Optical Materials, 2014, 38, 46-52.	3.6	5
107	Electrical dependencies of optical modulation capabilities in digitally addressed parallel aligned liquid crystal on silicon devices. Optical Engineering, 2014, 53, 067104.	1.0	24
108	Performance analysis of SSE and AVX instructions in multi-core CPUs and GPU computing on FDTD scheme for solid and fluid vibration problems. Journal of Supercomputing, 2014, 70, 514-526.	3.6	6

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109	Extended linear polarimeter to measure retardance and flicker: application to liquid crystal on silicon devices in two working geometries. Optical Engineering, 2014, 53, 014105.	1.0	23
110	Exact and approximate solutions for the anti-symmetric quadratic truly nonlinear oscillator. Applied Mathematics and Computation, 2014, 246, 355-364.	2.2	1
111	Holographic transmission gratings stored with high spatial frequency in PVA/AA photopolymers. Proceedings of SPIE, 2014, , .	0.8	0
112	Influence of a bleaching post-exposure treatment in the performance of H-PDLC devices with high electric conductivity. Proceedings of SPIE, 2014, , .	0.8	0
113	Influence of the set-up on the recording of diffractive optical elements into photopolymers. , 2014, , .		2
114	Accuracy analysis of simplified and rigorous numerical methods applied to binary nanopatterning gratings in non-paraxial domain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2245-2250.	2.1	4
115	Improving the performance of PVA/AA photopolymers for holographic recording. Optical Materials, 2013, 35, 668-673.	3.6	28
116	Development of a unified FDTD-FEM library for electromagnetic analysis with CPU and GPU computing. Journal of Supercomputing, 2013, 64, 28-37.	3.6	6
117	Performance analysis of the FDTD method applied to holographic volume gratings: Multi-core CPU versus GPU computing. Computer Physics Communications, 2013, 184, 469-479.	7.5	11
118	Analysis of the fabrication of diffractive optical elements in photopolymers. Proceedings of SPIE, 2013, , .	0.8	5
119	Linearity in the response of photopolymers as optical recording media. Optics Express, 2013, 21, 10995.	3.4	17
120	Holographic grating stability: influence of 4,4â€²-azobis (4-cyanopentanoic acid) on various spatial frequencies. Applied Optics, 2013, 52, 6322.	1.8	12
121	Analysis of holographic reflection gratings recorded in polyvinyl alcohol/acrylamide photopolymer. Applied Optics, 2013, 52, 1581.	1.8	5
122	Acceleration of split-field finite difference time-domain method for anisotropic media by means of graphics processing unit computing. Optical Engineering, 2013, 53, 011005.	1.0	11
123	Study of the modulation capabilities of parallel aligned liquid crystal on silicon displays. , 2013, , .		1
124	Overmodulation Control in the Optimization of a H-PDLC Device with Ethyl Eosin as Dye. International Journal of Polymer Science, 2013, 2013, 1-8.	2.7	15
125	VÃ³rtices no estacionarios en un vaso de agua. Revista Brasileira De Ensino De Fisica, 2013, 35, .	0.2	0
126	Biophotopol: A Sustainable Photopolymer for Holographic Data Storage Applications. Materials, 2012, 5, 772-783.	2.9	31

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127	Analytical Approximate Solutions for the Cubic-Quintic Duffing Oscillator in Terms of Elementary Functions. Journal of Applied Mathematics, 2012, 2012, 1-16.	0.9	14
128	Volume Holograms in Photopolymers: Comparison between Analytical and Rigorous Theories. Materials, 2012, 5, 1373-1388.	2.9	16
129	Analysis of periodic anisotropic media by means of split-field FDTD method and GPU computing. , 2012, , .		5
130	Relief diffracted elements recorded on absorbent photopolymers. Optics Express, 2012, 20, 11218.	3.4	19
131	Zero Spatial Frequency Limit: Method to Characterize Photopolymers as Optical Recording Material. Research Letters in Physics, 2012, 2012, 1-9.	0.2	3
132	Classical polarimetric method revisited to analyse the modulation capabilities of parallel aligned liquid crystal on silicon displays. , 2012, , .		7
133	Analysis of the geometry of a holographic memory setup. , 2012, , .		1
134	Comparison of simplified theories in the analysis of the diffraction efficiency in surface-relief gratings. , 2012, , .		12
135	Study of the stability in holographic reflection gratings recorded in PVA/AA-based photopolymer. , 2012, , .		0
136	Analysis of PEA photopolymers at zero spatial frequency limit. Proceedings of SPIE, 2012, , .	0.8	1
137	Approximate solutions for the nonlinear pendulum equation using a rational harmonic representation. Computers and Mathematics With Applications, 2012, 64, 1602-1611.	2.7	23
138	A dynamic beam splitter using polymer dispersed liquid crystal materials. , 2012, , .		2
139	Comments on â€˜A finite extensibility nonlinear oscillatorâ€™. Applied Mathematics and Computation, 2012, 218, 6168-6175.	2.2	6
140	Educational Software for Interference and Optical Diffraction Analysis in Fresnel and Fraunhofer Regions Based on MATLAB GUIs and the FDTD Method. IEEE Transactions on Education, 2012, 55, 118-125.	2.4	23
141	Analysis of the diffraction efficiency of reflection and transmission holographic gratings by means of a parallel FDTD approach. , 2011, , .		1
142	Approximate expressions for the period of a simple pendulum using a Taylor series expansion. European Journal of Physics, 2011, 32, 1303-1310.	0.6	24
143	Comparison of photopolymers for optical data storage applications and relief diffractive optical elements recorded onto photopolymers. Proceedings of SPIE, 2011, , .	0.8	1
144	Surface relief model for photopolymers without cover plating. Optics Express, 2011, 19, 10896.	3.4	24

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145	ANALYSIS OF REFLECTION GRATINGS BY MEANS OF A MATRIX METHOD APPROACH. Progress in Electromagnetics Research, 2011, 118, 167-183.	4.4	9
146	Performance improvement of high-thickness photopolymers for holographic data storage applications. Proceedings of SPIE, 2011, , .	0.8	1
147	Notes on â€œApplication of the Hamiltonian approach to nonlinear oscillators with rational and irrational elastic termsâ€: Mathematical and Computer Modelling, 2011, 54, 3204-3209.	2.0	6
148	Monomer diffusion in sustainable photopolymers for diffractive optics applications. Optical Materials, 2011, 33, 1626-1629.	3.6	9
149	An experiment in heat conduction using hollow cylinders. European Journal of Physics, 2011, 32, 1065-1075.	0.6	6
150	Reduction of zero-order spatial frequencies by using binary intensity and phase modulations in holographic data storage. , 2011, , .		0
151	Generation of diffractive optical elements onto a photopolymer using a liquid crystal display. , 2010, , .		17
152	Rigorous interference and diffraction analysis of diffractive optic elements using the finite-difference time-domain method. Computer Physics Communications, 2010, 181, 1963-1973.	7.5	21
153	An accurate closed-form approximate solution for the quintic Duffing oscillator equation. Mathematical and Computer Modelling, 2010, 52, 637-641.	2.0	37
154	Optimization of a holographic memory setup using an LCD and a PVA-based photopolymer. Optik, 2010, 121, 151-158.	2.9	6
155	Study of influence of ACPA in holographic reflection gratings recorded in PVA/AA based photopolymer. Proceedings of SPIE, 2010, , .	0.8	5
156	Birefringence of cellotape: Jones representation and experimental analysis. European Journal of Physics, 2010, 31, 551-561.	0.6	20
157	Higher accurate approximate solutions for the simple pendulum in terms of elementary functions. European Journal of Physics, 2010, 31, L65-L70.	0.6	13
158	Transference matrix method for non slanted holographic reflection gratings. Proceedings of SPIE, 2010, , .	0.8	1
159	Analytical approximate solutions for conservative nonlinear oscillators by modified rational harmonic balance method. International Journal of Computer Mathematics, 2010, 87, 1497-1511.	1.8	14
160	Rational-Harmonic Balancing Approach to Nonlinear Phenomena Governed by Pendulum-Like Differential Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 819-826.	1.5	4
161	APPROXIMATE ANALYTICAL SOLUTIONS FOR THE RELATIVISTIC OSCILLATOR USING A LINEARIZED HARMONIC BALANCE METHOD. International Journal of Modern Physics B, 2009, 23, 521-536.	2.0	12
162	Reply to â€˜Comment on â€œApproximation for the large-angle simple pendulum periodâ€â€™. European Journal of Physics, 2009, 30, L83-L86.	0.6	7

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163	Approximation for a large-angle simple pendulum period. European Journal of Physics, 2009, 30, L25-L28.	0.6	30
164	A Novel Rational Harmonic Balance Approach for Periodic Solutions of Conservative Nonlinear Oscillators. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, 13-26.	1.0	15
165	Multiplexing holograms for data page storage using a LCD as hybrid ternary modulation. Proceedings of SPIE, 2009, , .	0.8	2
166	Linear response deviations in photopolymers. Proceedings of SPIE, 2009, , .	0.8	0
167	Reflection holograms in a PVA/AA photopolymer: several compositions. , 2009, , .		0
168	Higher order analytical approximate solutions to the nonlinear pendulum by He's homotopy method. Physica Scripta, 2009, 79, 015009.	2.5	25
169	Linearization of conservative nonlinear oscillators. European Journal of Physics, 2009, 30, 259-270.	0.6	18
170	Nonlinear oscillator with discontinuity by generalized harmonic balance method. Computers and Mathematics With Applications, 2009, 58, 2117-2123.	2.7	24
171	Homotopy perturbation method for a conservative <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi>x</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</m force nonlinear oscillator. Computers and Mathematics With Applications, 2009, 58, 2267-2273.	2.7	19
172	Application of a modified Heâ€™s homotopy perturbation method to obtain higher-order approximations to a nonlinear oscillator with discontinuities. Nonlinear Analysis: Real World Applications, 2009, 10, 601-610.	1.7	62
173	Solution for an anti-symmetric quadratic nonlinear oscillator by a modified Heâ€™s homotopy perturbation method. Nonlinear Analysis: Real World Applications, 2009, 10, 416-427.	1.7	51
174	Approximate solutions of a nonlinear oscillator typified as a mass attached to a stretched elastic wire by the homotopy perturbation method. Chaos, Solitons and Fractals, 2009, 39, 746-764.	5.1	28
175	Rational harmonic balance based method for conservative nonlinear oscillators: Application to the Duffing equation. Mechanics Research Communications, 2009, 36, 728-734.	1.8	20
176	Harmonic balancing approach to nonlinear oscillations of a punctual charge in the electric field of charged ring. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 735-740.	2.1	11
177	An explicit approximate solution to the Duffing-harmonic oscillator by a cubication method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2805-2809.	2.1	34
178	Considerations on â€œHarmonic balancing approach to nonlinear oscillations of a punctual charge in the electric field of charged ringâ€• Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4264-4265.	2.1	6
179	Cubication of conservative nonlinear oscillators. European Journal of Physics, 2009, 30, 973-981.	0.6	31
180	Linear response deviations during recording of diffraction gratings in photopolymers. Optics Express, 2009, 17, 13193.	3.4	11

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181	In dark analysis of PVA/AA materials at very low spatial frequencies: phase modulation evolution and diffusion estimation. Optics Express, 2009, 17, 18279.	3.4	52
182	Spatial-phase-modulation-based study of polyvinyl-alcohol/acrylamide photopolymers in the low spatial frequency range. Applied Optics, 2009, 48, 4403.	2.1	17
183	Study of reflection gratings recorded in polyvinyl alcohol/acrylamide-based photopolymer. Applied Optics, 2009, 48, 6553.	2.1	12
184	Linearized Harmonic Balancing Approach for Accurate Solutions to the Dynamically Shifted Oscillator. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	1.0	3
185	Higher Accuracy Approximate Solution for Oscillations of a Mass Attached to a Stretched Elastic Wire by Rational Harmonic Balance Method. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, .	1.0	8
186	HolografÃa: ciencia, arte y tecnologÃa. Revista Brasileira De Ensino De Fisica, 2009, 31, 1602.1-1602.16.	0.2	3
187	Higher accuracy analytical approximations to a nonlinear oscillator with discontinuity by He's homotopy perturbation method. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2010-2016.	2.1	30
188	Application of a modified rational harmonic balance method for a class of strongly nonlinear oscillators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6047-6052.	2.1	15
189	Hologram multiplexing in acrylamide hydrophilic photopolymers. Optics Communications, 2008, 281, 1354-1357.	2.1	16
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