

Augusto Belendez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

296
papers

3,416
citations

29
h-index

42
g-index

390
ext. papers

4,007
ext. citations

2.2
avg, IF

4.94
L-index

#	Paper	IF	Citations
296	Polarimetric analysis of cross-talk phenomena induced by the pixelation in PA-LCoS devices. <i>Optics and Laser Technology</i> , 2022 , 152, 108125	4.2	
295	Processing of Holographic Hydrogels in Liquid Media: A Study by High-Performance Liquid Chromatography and Diffraction Efficiency. <i>Polymers</i> , 2022 , 14, 2089	4.5	1
294	Validation of Fresnel-Kirchhoff Integral Method for the Study of Volume Dielectric Bodies. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3800	2.6	
293	Closed-form solutions for the quadratic mixed-parity nonlinear oscillator. <i>Indian Journal of Physics</i> , 2021 , 95, 1213-1224	1.4	0
292	Linear Quadrupole Magnetic Field Measured with a Smartphone. <i>Physics Teacher</i> , 2020 , 58, 182-185	0.4	4
291	Analytical modeling of blazed gratings on two-dimensional pixelated liquid crystal on silicon devices. <i>Optical Engineering</i> , 2020 , 59, 1	1.1	4
290	Qualitative disorder measurements from backscattering spectra through an optical fiber. <i>Biomedical Optics Express</i> , 2020 , 11, 6038-6048	3.5	
289	Unitary matrix approach for a precise voltage dependent characterization of reflective liquid crystal devices by average Stokes polarimetry. <i>Optics Letters</i> , 2020 , 45, 5732-5735	3	2
288	Roadmap on holography. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 123002	1.7	16
287	An indirect measurement of the speed of light in a General Physics Laboratory. <i>Journal of King Saud University - Science</i> , 2020 , 32, 2797-2802	3.6	0
286	Analysis of the Imaging Characteristics of Holographic Waveguides Recorded in Photopolymers. <i>Polymers</i> , 2020 , 12,	4.5	5
285	Accurate, Efficient and Rigorous Numerical Analysis of 3D H-PDLC Gratings. <i>Materials</i> , 2020 , 13,	3.5	1
284	LED-Cured Reflection Gratings Stored in an Acrylate-Based Photopolymer. <i>Polymers</i> , 2019 , 11,	4.5	2
283	Holographic Characteristics of Photopolymers Containing Different Mixtures of Nematic Liquid Crystals. <i>Polymers</i> , 2019 , 11,	4.5	7
282	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. <i>Polymers</i> , 2019 , 11,	4.5	3
281	Development of a laboratory practice for physics introductory courses using a rubric for evaluation by competences. <i>Journal of Physics: Conference Series</i> , 2019 , 1287, 012025	0.3	
280	Holographic waveguides in photopolymers. <i>Optics Express</i> , 2019 , 27, 827-840	3.3	15

279	Combining average molecular tilt and flicker for management of depolarized light in parallel-aligned liquid crystal devices for broadband and wide-angle illumination. <i>Optics Express</i> , 2019 , 27, 5238-5252	3.3	5
278	Blazed grating theory to minimize the non-idealities in LCoS devices 2019 ,		1
277	Complex Diffractive Optical Elements Stored in Photopolymers. <i>Polymers</i> , 2019 , 11,	4.5	3
276	Analysis of holographic polymer-dispersed liquid crystals (HPDLCs) for tunable low frequency diffractive optical elements recording. <i>Optical Materials</i> , 2018 , 76, 295-301	3.3	8
275	Simplified physical modeling of parallel-aligned liquid crystal devices at highly non-linear tilt angle profiles. <i>Optics Express</i> , 2018 , 26, 12723-12741	3.3	4
274	Anamorphic and Local Characterization of a Holographic Data Storage System with a Liquid-Crystal on Silicon Microdisplay as Data Pager. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 986	2.6	1
273	Holographic Lenses in an Environment-Friendly Photopolymer. <i>Polymers</i> , 2018 , 10,	4.5	11
272	Computational split-field finite-difference time-domain evaluation of simplified tilt-angle models for parallel-aligned liquid-crystal devices. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	2
271	Exact solutions for an oscillator with anti-symmetric quadratic nonlinearity. <i>Indian Journal of Physics</i> , 2018 , 92, 495-506	1.4	1
270	Numerical Analysis of H-PDLC Using the Split-Field Finite-Difference Time-Domain Method. <i>Polymers</i> , 2018 , 10,	4.5	3
269	Shrinkage measurement for holographic recording materials 2017 ,		1
268	Peristrophic multiplexed holograms recorded in a low toxicity photopolymer. <i>Optical Materials Express</i> , 2017 , 7, 133	2.6	9
267	Modeling Diffractive Lenses Recording in Environmentally Friendly Photopolymer. <i>Polymers</i> , 2017 , 9,	4.5	3
266	Additives Type Schiff's Base as Modifiers of the Optical Response in Holographic Polymer-Dispersed Liquid Crystals. <i>Polymers</i> , 2017 , 9,	4.5	5
265	Closed-Form Exact Solutions for the Unforced Quintic Nonlinear Oscillator. <i>Advances in Mathematical Physics</i> , 2017 , 2017, 1-14	1.1	3
264	Polarimetric and diffractive evaluation of 3.74 micron pixel-size LCoS in the telecommunications C-band 2017 ,		1
263	SF-FDTD analysis of a predictive physical model for parallel aligned liquid crystal devices 2017 ,		1
262	PVA/AA photopolymers and PA-LCoS devices combined for holographic data storage 2016 ,		2

261	Biophotopolig energetic sensitivity improved in 300th layers by tuning the recording wavelength. <i>Optical Materials</i> , 2016 , 52, 111-115	3.3	7
260	Reply to Comment on Measurement of the magnetic field of small magnets with a smartphone: a very economical laboratory practice for introductory physics courses. <i>European Journal of Physics</i> , 2016 , 37, 028002	0.8	3
259	Solutions for Conservative Nonlinear Oscillators Using an Approximate Method Based on Chebyshev Series Expansion of the Restoring Force. <i>Acta Physica Polonica A</i> , 2016 , 130, 667-678	0.6	5
258	Influence of 4,4'-azobis (4-cyanopentanoic acid) in Transmission and Reflection Gratings Stored in a PVA/AA Photopolymer. <i>Materials</i> , 2016 , 9,	3.5	2
257	Blazed Gratings Recorded in Absorbent Photopolymers. <i>Materials</i> , 2016 , 9,	3.5	5
256	Dimensional changes in slanted diffraction gratings recorded in photopolymers. <i>Optical Materials Express</i> , 2016 , 6, 3455	2.6	10
255	Exact solution for the unforced Duffing oscillator with cubic and quintic nonlinearities. <i>Nonlinear Dynamics</i> , 2016 , 86, 1687-1700	5	21
254	Influence of index matching on AA/PVA photopolymers for low spatial frequency recording. <i>Applied Optics</i> , 2015 , 54, 3132-40	0.2	4
253	Predictive capability of average Stokes polarimetry for simulation of phase multilevel elements onto LCoS devices. <i>Applied Optics</i> , 2015 , 54, 1379-86	1.7	16
252	Measurement of the magnetic field of small magnets with a smartphone: a very economical laboratory practice for introductory physics courses. <i>European Journal of Physics</i> , 2015 , 36, 065002	0.8	52
251	Effective angular and wavelength modeling of parallel aligned liquid crystal devices. <i>Optics and Lasers in Engineering</i> , 2015 , 74, 114-121	4.6	8
250	Exploring binary and ternary modulations on a PA-LCoS device for holographic data storage in a PVA/AA photopolymer. <i>Optics Express</i> , 2015 , 23, 20459-79	3.3	11
249	Static and dynamic effects of flicker in phase multilevel elements on LCoS devices 2015 ,		3
248	Study of the index matching for different photopolymers 2015 ,		1
247	Two diffusion photopolymer for sharp diffractive optical elements recording. <i>Optics Letters</i> , 2015 , 40, 3221-4	3	13
246	Diffraction efficiency improvement in high spatial frequency holographic gratings stored in PVA/AA photopolymers: several ACPA concentrations. <i>Journal of Optics (United Kingdom)</i> , 2015 , 17, 015401	1.7	2
245	Nonlinear oscillator with power-form elastic-term: Fourier series expansion of the exact solution. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 22, 134-148	3.7	9
244	Characterization and comparison of different photopolymers for low spatial frequency recording. <i>Optical Materials</i> , 2015 , 44, 18-24	3.3	8

243	Multi-GPU and multi-CPU accelerated FDTD scheme for vibroacoustic applications. <i>Computer Physics Communications</i> , 2015 , 191, 43-51	4.2	6
242	Extended linear polarimeter to measure retardance and flicker: application to liquid crystal on silicon devices in two working geometries. <i>Optical Engineering</i> , 2014 , 53, 014105	1.1	12
241	Exact and approximate solutions for the anti-symmetric quadratic truly nonlinear oscillator. <i>Applied Mathematics and Computation</i> , 2014 , 246, 355-364	2.7	1
240	Influence of the set-up on the recording of diffractive optical elements into photopolymers 2014 ,		2
239	Binary Intensity Modulation and Hybrid Ternary Modulation Applied to Multiplexing Objects Using Holographic Data Storage on a PVA/AA Photopolymer. <i>International Journal of Polymer Science</i> , 2014 , 2014, 1-8	2.4	2
238	Experimental Conditions to Obtain Photopolymerization Induced Phase Separation Process in Liquid Crystal-Photopolymer Composite Materials under Laser Exposure. <i>International Journal of Polymer Science</i> , 2014 , 2014, 1-5	2.4	4
237	Influence of Thickness on the Holographic Parameters of H-PDLC Materials. <i>International Journal of Polymer Science</i> , 2014 , 2014, 1-7	2.4	1
236	Beta value coupled wave theory for nonslanted reflection gratings. <i>Scientific World Journal, The</i> , 2014 , 2014, 513734	2.2	1
235	Retardance and flicker modeling and characterization of electro-optic linear retarders by averaged Stokes polarimetry. <i>Optics Letters</i> , 2014 , 39, 1011-4	3	26
234	Averaged Stokes polarimetry applied to evaluate retardance and flicker in PA-LCoS devices. <i>Optics Express</i> , 2014 , 22, 15064-74	3.3	35
233	Model of low spatial frequency diffractive elements recorded in photopolymers during and after recording. <i>Optical Materials</i> , 2014 , 38, 46-52	3.3	4
232	Electrical dependencies of optical modulation capabilities in digitally addressed parallel aligned liquid crystal on silicon devices. <i>Optical Engineering</i> , 2014 , 53, 067104	1.1	18
231	Performance analysis of SSE and AVX instructions in multi-core CPUs and GPU computing on FDTD scheme for solid and fluid vibration problems. <i>Journal of Supercomputing</i> , 2014 , 70, 514-526	2.5	5
230	Accuracy analysis of simplified and rigorous numerical methods applied to binary nanopatterning gratings in non-paraxial domain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 2245-2250	2.3	3
229	Improving the performance of PVA/AA photopolymers for holographic recording. <i>Optical Materials</i> , 2013 , 35, 668-673	3.3	21
228	Development of a unified FDTD-FEM library for electromagnetic analysis with CPU and GPU computing. <i>Journal of Supercomputing</i> , 2013 , 64, 28-37	2.5	5
227	Performance analysis of the FDTD method applied to holographic volume gratings: Multi-core CPU versus GPU computing. <i>Computer Physics Communications</i> , 2013 , 184, 469-479	4.2	10
226	Analysis of the fabrication of diffractive optical elements in photopolymers 2013 ,		4

225	Linearity in the response of photopolymers as optical recording media. <i>Optics Express</i> , 2013 , 21, 10995-10998	10
224	Holographic grating stability: influence of 4,4'-azobis (4-cyanopentanoic acid) on various spatial frequencies. <i>Applied Optics</i> , 2013 , 52, 6322-31	1.7 9
223	Analysis of holographic reflection gratings recorded in polyvinyl alcohol/acrylamide photopolymer. <i>Applied Optics</i> , 2013 , 52, 1581-90	1.7 4
222	Acceleration of split-field finite difference time-domain method for anisotropic media by means of graphics processing unit computing. <i>Optical Engineering</i> , 2013 , 53, 011005	1.1 9
221	Overmodulation Control in the Optimization of a H-PDLC Device with Ethyl Eosin as Dye. <i>International Journal of Polymer Science</i> , 2013 , 2013, 1-8	2.4 10
220	Educational Software for Interference and Optical Diffraction Analysis in Fresnel and Fraunhofer Regions Based on MATLAB GUIs and the FDTD Method. <i>IEEE Transactions on Education</i> , 2012 , 55, 118-125	2.1 18
219	Approximate solutions for the nonlinear pendulum equation using a rational harmonic representation. <i>Computers and Mathematics With Applications</i> , 2012 , 64, 1602-1611	2.7 16
218	A dynamic beam splitter using polymer dispersed liquid crystal materials 2012 ,	2
217	Diffractive and interferometric methods to characterize photopolymers with liquid crystal molecules as holographic recording material. <i>Journal of the European Optical Society-Rapid Publications</i> , 2012 , 7,	2.5 5
216	Comments on \mathbb{A} finite extensibility nonlinear oscillator \square <i>Applied Mathematics and Computation</i> , 2012 , 218, 6168-6175	2.7 6
215	Biophotopol: A Sustainable Photopolymer for Holographic Data Storage Applications. <i>Materials</i> , 2012 , 5, 772-783	3.5 17
214	Analytical Approximate Solutions for the Cubic-Quintic Duffing Oscillator in Terms of Elementary Functions. <i>Journal of Applied Mathematics</i> , 2012 , 2012, 1-16	1.1 10
213	Volume Holograms in Photopolymers: Comparison between Analytical and Rigorous Theories. <i>Materials</i> , 2012 , 5, 1373-1388	3.5 11
212	Analysis of periodic anisotropic media by means of split-field FDTD method and GPU computing 2012 ,	4
211	Relief diffracted elements recorded on absorbent photopolymers. <i>Optics Express</i> , 2012 , 20, 11218-31	3.3 12
210	Zero Spatial Frequency Limit: Method to Characterize Photopolymers as Optical Recording Material. <i>Research Letters in Physics</i> , 2012 , 2012, 1-9	2
209	Classical polarimetric method revisited to analyse the modulation capabilities of parallel aligned liquid crystal on silicon displays 2012 ,	3
208	Analysis of the geometry of a holographic memory setup 2012 ,	1

207	Comparison of simplified theories in the analysis of the diffraction efficiency in surface-relief gratings 2012 ,		6
206	Analysis of the diffraction efficiency of reflection and transmission holographic gratings by means of a parallel FDTD approach 2011 ,		1
205	Approximate expressions for the period of a simple pendulum using a Taylor series expansion. <i>European Journal of Physics</i> , 2011 , 32, 1303-1310	0.8	21
204	Comparison of photopolymers for optical data storage applications and relief diffractive optical elements recorded onto photopolymers 2011 ,		1
203	Surface relief model for photopolymers without cover plating. <i>Optics Express</i> , 2011 , 19, 10896-906	3.3	15
202	ANALYSIS OF REFLECTION GRATINGS BY MEANS OF A MATRIX METHOD APPROACH. <i>Progress in Electromagnetics Research</i> , 2011 , 118, 167-183	3.8	6
201	Performance improvement of high-thickness photopolymers for holographic data storage applications 2011 ,		1
200	Notes on Application of the Hamiltonian approach to nonlinear oscillators with rational and irrational elastic terms <i>Mathematical and Computer Modelling</i> , 2011 , 54, 3204-3209		5
199	Monomer diffusion in sustainable photopolymers for diffractive optics applications. <i>Optical Materials</i> , 2011 , 33, 1626-1629	3.3	8
198	An experiment in heat conduction using hollow cylinders. <i>European Journal of Physics</i> , 2011 , 32, 1065-1073		5
197	Study of influence of ACPA in holographic reflection gratings recorded in PVA/AA based photopolymer 2010 ,		3
196	Birefringence of cello tape: Jones representation and experimental analysis. <i>European Journal of Physics</i> , 2010 , 31, 551-561	0.8	12
195	Higher accurate approximate solutions for the simple pendulum in terms of elementary functions. <i>European Journal of Physics</i> , 2010 , 31, L65-L70	0.8	12
194	Analytical approximate solutions for conservative nonlinear oscillators by modified rational harmonic balance method. <i>International Journal of Computer Mathematics</i> , 2010 , 87, 1497-1511	1.2	12
193	Generation of diffractive optical elements onto a photopolymer using a liquid crystal display 2010 ,		10
192	Rigorous interference and diffraction analysis of diffractive optic elements using the finite-difference time-domain method. <i>Computer Physics Communications</i> , 2010 , 181, 1963-1973	4.2	11
191	An accurate closed-form approximate solution for the quintic Duffing oscillator equation. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 637-641		32
190	Optimization of a holographic memory setup using an LCD and a PVA-based photopolymer. <i>Optik</i> , 2010 , 121, 151-158	2.5	4

189	Rational-Harmonic Balancing Approach to Nonlinear Phenomena Governed by Pendulum-Like Differential Equations. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2009 , 64, 819-826	1.4	3
188	APPROXIMATE ANALYTICAL SOLUTIONS FOR THE RELATIVISTIC OSCILLATOR USING A LINEARIZED HARMONIC BALANCE METHOD. <i>International Journal of Modern Physics B</i> , 2009 , 23, 521-536	1.1	11
187	Reply to Comment on Approximation for the large-angle simple pendulum period <i>European Journal of Physics</i> , 2009 , 30, L83-L86	0.8	5
186	Approximation for a large-angle simple pendulum period. <i>European Journal of Physics</i> , 2009 , 30, L25-L28	0.8	23
185	A Novel Rational Harmonic Balance Approach for Periodic Solutions of Conservative Nonlinear Oscillators. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009 , 10, 13-26	1.8	11
184	Multiplexing holograms for data page storage using a LCD as hybrid ternary modulation 2009 ,		1
183	Higher order analytical approximate solutions to the nonlinear pendulum by He's homotopy method. <i>Physica Scripta</i> , 2009 , 79, 015009	2.6	16
182	Linearization of conservative nonlinear oscillators. <i>European Journal of Physics</i> , 2009 , 30, 259-270	0.8	16
181	Nonlinear oscillator with discontinuity by generalized harmonic balance method. <i>Computers and Mathematics With Applications</i> , 2009 , 58, 2117-2123	2.7	22
180	Homotopy perturbation method for a conservative . <i>Computers and Mathematics With Applications</i> , 2009 , 58, 2267-2273	2.7	15
179	Application of a modified He's homotopy perturbation method to obtain higher-order approximations to a nonlinear oscillator with discontinuities. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 601-610	2.1	48
178	Solution for an anti-symmetric quadratic nonlinear oscillator by a modified He's homotopy perturbation method. <i>Nonlinear Analysis: Real World Applications</i> , 2009 , 10, 416-427	2.1	41
177	Approximate solutions of a nonlinear oscillator typified as a mass attached to a stretched elastic wire by the homotopy perturbation method. <i>Chaos, Solitons and Fractals</i> , 2009 , 39, 746-764	9.3	19
176	Rational harmonic balance based method for conservative nonlinear oscillators: Application to the Duffing equation. <i>Mechanics Research Communications</i> , 2009 , 36, 728-734	2.2	19
175	Harmonic balancing approach to nonlinear oscillations of a punctual charge in the electric field of charged ring. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 735-740	2.3	10
174	An explicit approximate solution to the Duffing-harmonic oscillator by a cubication method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 2805-2809	2.3	31
173	Considerations on Harmonic balancing approach to nonlinear oscillations of a punctual charge in the electric field of charged ring <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 4264-4265	2.3	5
172	Cubication of conservative nonlinear oscillators. <i>European Journal of Physics</i> , 2009 , 30, 973-981	0.8	27

171	Linear response deviations during recording of diffraction gratings in photopolymers. <i>Optics Express</i> , 2009 , 17, 13193-201	3.3	8
170	In dark analysis of PVA/AA materials at very low spatial frequencies: phase modulation evolution and diffusion estimation. <i>Optics Express</i> , 2009 , 17, 18279-91	3.3	44
169	Spatial-phase-modulation-based study of polyvinyl-alcohol/acrylamide photopolymers in the low spatial frequency range. <i>Applied Optics</i> , 2009 , 48, 4403-13	0.2	13
168	Study of reflection gratings recorded in polyvinyl alcohol/acrylamide-based photopolymer. <i>Applied Optics</i> , 2009 , 48, 6553-7	0.2	9
167	Linearized Harmonic Balancing Approach for Accurate Solutions to the Dynamically Shifted Oscillator. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009 , 10,	1.8	2
166	Higher Accuracy Approximate Solution for Oscillations of a Mass Attached to a Stretched Elastic Wire by Rational Harmonic Balance Method. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009 , 10,	1.8	7
165	Holografía: ciencia, arte y tecnología. <i>Revista Brasileira De Ensino De Fisica</i> , 2009 , 31, 1602.1-1602.16	0.4	0
164	Analysis of PVA/AA based photopolymers at the zero spatial frequency limit using interferometric methods. <i>Applied Optics</i> , 2008 , 47, 2557-63	1.7	13
163	Multiplexed holographic data page storage on a polyvinyl alcohol/acrylamide photopolymer memory. <i>Applied Optics</i> , 2008 , 47, 4448-56	0.2	15
162	An Equivalent Linearization Method for Conservative Nonlinear Oscillators. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2008 , 9,	1.8	6
161	Accurate approximate solution to nonlinear oscillators in which the restoring force is inversely proportional to the dependent variable. <i>Physica Scripta</i> , 2008 , 77, 065004	2.6	13
160	Higher-order approximate solutions to the relativistic and Duffing-harmonic oscillators by modified He's homotopy methods. <i>Physica Scripta</i> , 2008 , 77, 025004	2.6	16
159	Multiplexing holograms for data page storage as a holographic memory in a PVA/AA photopolymer 2008 ,		2
158	Approximate Solutions for Conservative Nonlinear Oscillators by He's Homotopy Method. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2008 , 63, 529-537	1.4	1
157	Direct analysis of monomer diffusion times in polyvinyl/acrylamide materials. <i>Applied Physics Letters</i> , 2008 , 92, 073306	3.4	24
156	Higher accuracy analytical approximations to a nonlinear oscillator with discontinuity by He's homotopy perturbation method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 2010-2016	2.3	29
155	Application of a modified rational harmonic balance method for a class of strongly nonlinear oscillators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 6047-6052	2.3	15
154	Hologram multiplexing in acrylamide hydrophilic photopolymers. <i>Optics Communications</i> , 2008 , 281, 1354-1357	2	14

153	Solution of the relativistic (an)harmonic oscillator using the harmonic balance method. <i>Journal of Sound and Vibration</i> , 2008 , 311, 1447-1456	3.9	14
152	Harmonic balance approaches to the nonlinear oscillators in which the restoring force is inversely proportional to the dependent variable. <i>Journal of Sound and Vibration</i> , 2008 , 314, 775-782	3.9	27
151	Application of He's homotopy perturbation method to conservative truly nonlinear oscillators. <i>Chaos, Solitons and Fractals</i> , 2008 , 37, 770-780	9.3	61
150	Analysis of multiplexed holograms stored in a thick PVA/AA photopolymer. <i>Optics Communications</i> , 2008 , 281, 1480-1485	2	8
149	Exact solution for the nonlinear pendulum. <i>Revista Brasileira De Ensino De Fisica</i> , 2007 , 29, 645-648	0.4	47
148	Analysis of monomer diffusion in depth in photopolymer materials. <i>Optics Communications</i> , 2007 , 274, 43-49	2	15
147	Asymptotic representations of the period for the nonlinear oscillator. <i>Journal of Sound and Vibration</i> , 2007 , 299, 403-408	3.9	12
146	Application of the harmonic balance method to a nonlinear oscillator typified by a mass attached to a stretched wire. <i>Journal of Sound and Vibration</i> , 2007 , 302, 1018-1029	3.9	75
145	Comments on Investigation of the properties of the period for the nonlinear oscillator $x'' + (1 + x^2)x = 0$. <i>Journal of Sound and Vibration</i> , 2007 , 303, 925-930	3.9	13
144	Application of a modified He's homotopy perturbation method to obtain higher-order approximations of an $x^{1/3}$ force nonlinear oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 371, 421-426	2.3	78
143	Harmonic balance approach to the periodic solutions of the (an)harmonic relativistic oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 371, 291-299	2.3	31
142	Application of the homotopy perturbation method to the nonlinear pendulum. <i>European Journal of Physics</i> , 2007 , 28, 93-104	0.8	63
141	Post-Buckling of a Cantilever Column: A More Accurate Linear Analysis of a Classical Nonlinear Problem. <i>International Journal of Mechanical Engineering Education</i> , 2007 , 35, 293-304	0.6	3
140	Application of He's Homotopy Perturbation Method to the Relativistic (An)harmonic Oscillator. II: A More Accurate Approximate Solution. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2007 , 8,	1.8	6
139	Characterization and optimization of liquid crystal displays for data storage applications 2007 ,		2
138	Optimization of a holographic memory setup using a LCD and a PVA based photopolymer 2007 ,		1
137	Accurate control of a liquid-crystal display to produce a homogenized Fourier transform for holographic memories. <i>Optics Letters</i> , 2007 , 32, 2511-3	3	10
136	Improved maximum uniformity and capacity of multiple holograms recorded in absorbent photopolymers. <i>Optics Express</i> , 2007 , 15, 9308-19	3.3	9

135	New photopolymer holographic recording material with sustainable design. <i>Optics Express</i> , 2007 , 15, 12425-35	3.3	41
134	Comparison of peristrophic multiplexing and a combination of angular and peristrophic holographic multiplexing in a thick PVA/acrylamide photopolymer for data storage. <i>Applied Optics</i> , 2007 , 46, 5368-73 ¹⁻⁷		26
133	Real-time interferometric characterization of a polyvinyl alcohol based photopolymer at the zero spatial frequency limit. <i>Applied Optics</i> , 2007 , 46, 7506-12	1.7	16
132	An Improved 'Heuristic' Approximation for the Period of a Nonlinear Pendulum: Linear Analysis of a Classical Nonlinear Problem. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2007 , 8,	1.8	18
131	Application of He's Homotopy Perturbation Method to the Duffing-Harmonic Oscillator. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2007 , 8,	1.8	67
130	Application of He's Homotopy Perturbation Method to the Relativistic (An)harmonic Oscillator. I: Comparison between Approximate and Exact Frequencies. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2007 , 8,	1.8	9
129	Exact solution for the nonlinear pendulum 2007 , 29,		3
128	Analysis of amplitude and phase coupling in volume holography 2006 , 6252, 338		
127	Analytical approximations for the period of a nonlinear pendulum. <i>European Journal of Physics</i> , 2006 , 27, 539-551	0.8	79
126	Effect of the glass substrate on the efficiency of the different orders that propagate in a transmission sinusoidal diffraction grating. <i>Journal of Modern Optics</i> , 2006 , 53, 1403-1410	1.1	
125	3-dimensional characterization of thick grating formation in PVA/AA based photopolymer. <i>Optics Express</i> , 2006 , 14, 5121-8	3.3	25
124	Optimization of a thick polyvinyl alcohol-acrylamide photopolymer for data storage using a combination of angular and peristrophic holographic multiplexing. <i>Applied Optics</i> , 2006 , 45, 7661-6	1.7	52
123	Multiplexing holograms in an acrylamide photopolymer 2006 ,		1
122	3-dimensional analysis of holographic memories based on photopolymers using finite differences method 2006 , 6187, 307		
121	Grating matrix method to describe a volume transmission diffraction grating. <i>Optics Communications</i> , 2006 , 266, 122-128	2	1
120	Effect of the incorporation of N,N'-methylene-bis-acrylamide on the multiplexing of holograms in a hydrophilic acrylamide photopolymer. <i>Optics Communications</i> , 2006 , 268, 133-137	2	5
119	High-efficiency volume holograms recording on acrylamide and N,N'-methylene-bis-acrylamide photopolymer with pulsed laser. <i>Journal of Modern Optics</i> , 2005 , 52, 1575-1584	1.1	16
118	Characterization of polyvinyl alcohol/acrylamide holographic memories with a first-harmonic diffusion model. <i>Applied Optics</i> , 2005 , 44, 6205-10	1.7	14

117	Physical and effective optical thickness of holographic diffraction gratings recorded in photopolymers. <i>Optics Express</i> , 2005 , 13, 1939-47	3.3	51
116	3 Dimensional analysis of holographic photopolymers based memories. <i>Optics Express</i> , 2005 , 13, 3543-57	3.3	36
115	Holographic Characteristics of an Acrylamide/Bisacrylamide Photopolymer in 40 μ m Thick Layers. <i>Physica Scripta</i> , 2005 , 66	2.6	12
114	Analysis of Second and Third Diffracted Orders in Volume Diffraction Gratings Recorded on Photopolymers. <i>Physica Scripta</i> , 2005 , 58	2.6	6
113	Maximum effective optical thickness of the gratings recorded in photopolymers 2005 ,		2
112	Holographic Gratings with Different Spatial Frequencies Recorded on BB-640 Bleached Silver Halide Emulsions Using Reversal Bleaches. <i>Materials Science Forum</i> , 2005 , 480-481, 543-548	0.4	1
111	Numerical and Experimental Analysis of Large Deflections of Cantilever Beams Under a Combined Load. <i>Physica Scripta</i> , 2005 , 61	2.6	23
110	Complementary approaches with and without a Fourier plane for optical image processing education 2005 , 9664, 124		
109	Comparative study of bleaches applied to BB-640 plates. <i>Journal of Optics</i> , 2004 , 6, 71-76		
108	Stabilization of volume gratings recorded in polyvinyl alcohol-acrylamide photopolymers with diffraction efficiencies higher than 90%. <i>Journal of Modern Optics</i> , 2004 , 51, 491-503	1.1	12
107	An Integrated Project for Teaching the Post-Buckling of a Slender Cantilever Bar. <i>International Journal of Mechanical Engineering Education</i> , 2004 , 32, 78-92	0.6	4
106	Stabilization of volume gratings recorded in polyvinyl alcohol-acrylamide photopolymers with diffraction efficiencies higher than 90%. <i>Journal of Modern Optics</i> , 2004 , 51, 491-503	1.1	6
105	Effect of a depth attenuated refractive index profile in the angular responses of the efficiency of higher orders in volume gratings recorded in a PVA/acrylamide photopolymer. <i>Optics Communications</i> , 2004 , 233, 311-322	2	23
104	Angular responses of the first diffracted order in over-modulated volume diffraction gratings. <i>Journal of Modern Optics</i> , 2004 , 51, 1149-1162	1.1	6
103	Thin and thick diffraction gratings: Thin matrix decomposition method. <i>Optik</i> , 2004 , 115, 385-392	2.5	
102	Depth attenuated refractive index profiles in holographic gratings recorded in photopolymer materials 2004 , 5456, 449		
101	Optimization of a PVA/acrylamide material for the recording of multiple diffraction gratings 2004 ,		1
100	Space-variant image processing with volume holography 2004 , 5456, 315		

99	High-efficiency volume holograms recording on acrylamide and N,N'methylene-bis-acrylamide photopolymer with pulsed laser 2004 ,		1
98	Three approaches to calculating the velocity profile of a laminar incompressible fluid flow in a hollow tube. <i>American Journal of Physics</i> , 2003 , 71, 46-48	0.7	1
97	Thick phase holographic gratings recorded on BB-640 and PFG-01 silver halide materials. <i>Journal of Optics</i> , 2003 , 5, S183-S188		4
96	Comparison between a thin matrix decomposition method and the rigorous coupled wave theory applied to volume diffraction gratings. <i>Optik</i> , 2003 , 114, 529-534	2.5	2
95	Optimization of a 1 mm thick PVA/acrylamide recording material to obtain holographic memories: method of preparation and holographic properties. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 76, 851-857	1.9	64
94	Overmodulation effects in volume holograms recorded on photopolymers. <i>Optics Communications</i> , 2003 , 215, 263-269	2	31
93	Characterization of a PVA/acrylamide photopolymer. Influence of a cross-linking monomer in the final characteristics of the hologram. <i>Optics Communications</i> , 2003 , 224, 27-34	2	29
92	Influence of the fringe visibility on the characteristics of holograms recorded in photopolymer material. <i>Optik</i> , 2003 , 114, 401-406	2.5	4
91	Diffusion-based model to predict the conservation of gratings recorded in poly(vinyl alcohol)-acrylamide photopolymer. <i>Applied Optics</i> , 2003 , 42, 5839-45	1.7	9
90	Holographic characteristics of a 1-mm-thick photopolymer to be used in holographic memories. <i>Applied Optics</i> , 2003 , 42, 7008-12	1.7	31
89	Edge-enhanced imaging with polyvinyl alcohol/acrylamide photopolymer gratings. <i>Optics Letters</i> , 2003 , 28, 1510-2	3	26
88	First-harmonic diffusion-based model applied to a polyvinyl-alcohol/acrylamide-based photopolymer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 2052	1.7	36
87	Temporal evolution of the angular response of a holographic diffraction grating in PVA/acrylamide photopolymer. <i>Optics Express</i> , 2003 , 11, 181-90	3.3	21
86	Angular responses of the first and second diffracted orders in transmission diffraction grating recorded on photopolymer material. <i>Optics Express</i> , 2003 , 11, 1835-43	3.3	40
85	Non-local polymerization driven diffusion based model: general dependence of the polymerization rate to the exposure intensity. <i>Optics Express</i> , 2003 , 11, 1876-86	3.3	12
84	The influence of the procedure on the dynamic range of bleached silver halide emulsions. <i>Journal of Modern Optics</i> , 2003 , 50, 1773-1789	1.1	1
83	An analysis of the classical Doppler effect. <i>European Journal of Physics</i> , 2003 , 24, 497-505	0.8	9
82	Diffraction efficiency of unbleached phase and amplitude holograms as a function of volume fraction of metallic silver. <i>Optics Communications</i> , 2002 , 201, 279-282	2	3

81	Experimental evidence of mixed gratings with a phase difference between the phase and amplitude grating in volume holograms. <i>Optics Express</i> , 2002 , 10, 1374-83	3.3	18
80	Hologram recording in polyvinyl alcohol/acrylamide photopolymers by means of pulsed laser exposure. <i>Applied Optics</i> , 2002 , 41, 2613-20	1.7	12
79	Mechanism of hologram formation in fixation-free rehalogenating bleaching processes. <i>Applied Optics</i> , 2002 , 41, 4092-103	1.7	2
78	Determination of the refractive index and thickness of holographic silver halide materials by use of polarized reflectances. <i>Applied Optics</i> , 2002 , 41, 6802-8	1.7	8
77	Large and small deflections of a cantilever beam. <i>European Journal of Physics</i> , 2002 , 23, 371-379	0.8	147
76	Mixed phase-amplitude holographic gratings recorded in bleached silver halide materials. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 957-967	3	12
75	Bleached silver halide volume holograms recorded on Slavich PFG-01 emulsion: The influence of the developer. <i>Journal of Modern Optics</i> , 2001 , 48, 1479-1494	1.1	6
74	Theoretical and experimental analysis of overmodulation effects in volume holograms recorded on BB-640 emulsions. <i>Journal of Optics</i> , 2001 , 3, 504-513		16
73	Fixation-free bleached silver halide transmission holograms recorded on Slavich PFG-01 red sensitive plates. <i>Journal of Modern Optics</i> , 2001 , 48, 1643-1655	1.1	7
72	Silver halide volume holograms on BB-640 plates: The influence of the developer in rehalogenating bleach techniques. <i>Optik</i> , 2001 , 112, 349-357	2.5	
71	Study of angular responses of mixed amplitude--phase holographic gratings: shifted Borrmann effect. <i>Optics Letters</i> , 2001 , 26, 786-8	3	28
70	Effects of overmodulation in fixation-free rehalogenating bleached holograms. <i>Applied Optics</i> , 2001 , 40, 3402-8	1.7	6
69	Semiphysical development of holograms recorded in silver halide emulsions 2000 , 4149, 63		
68	Optimization of fixation-free rehalogenating bleach for BB-640 holographic plates 2000 , 4149, 91		
67	Fixation-free rehalogenating bleached reflection holograms recorded on BB-640 plates. <i>Optics Communications</i> , 2000 , 182, 107-114	2	5
66	The influence of the development in silver halide sensitized gelatin holograms derived from PFG-01 plates. <i>Optics Communications</i> , 2000 , 173, 161-167	2	8
65	Phase holograms in silver halide emulsions without a bleaching step 2000 ,		2
64	Optimization of a fixation-free rehalogenating bleach for BB-640 holographic emulsion. <i>Journal of Modern Optics</i> , 2000 , 47, 1671-1679	1.1	10

63	Copying low spatial frequency diffraction gratings in photopolymer as phase holograms. <i>Journal of Modern Optics</i> , 2000 , 47, 1089-1097	1.1	6
62	Silver halide sensitized gelatin holograms in Slavich PFG-01 red-sensitive emulsion. <i>Journal of Modern Optics</i> , 1999 , 46, 1913-1925	1.1	9
61	Comparison of nonlinear characteristics of phase holograms processed by various combinations of developers and bleaching agents. <i>Journal of Modern Optics</i> , 1999 , 46, 591-604	1.1	7
60	Silver halide sensitized gelatin derived from BB-640 holographic emulsion. <i>Applied Optics</i> , 1999 , 38, 1348-56	1.7	15
59	Diffraction efficiency and signal-to-noise ratio of diffuse-object holograms in real time in polyvinyl alcohol photopolymers. <i>Applied Optics</i> , 1999 , 38, 5548-51	1.7	9
58	Analysis and elimination of boundary reflections in transmission holograms. <i>Optics and Laser Technology</i> , 1998 , 30, 555-560	4.2	3
57	Improved spatial frequency response in silver halide sensitized gelatin holograms. <i>Optics Communications</i> , 1998 , 155, 241-244	2	4
56	Theoretical and experimental study of the bleaching of a dye in a film-polymerization process. <i>Applied Optics</i> , 1998 , 37, 4496-9	1.7	23
55	High-efficiency silver-halide sensitized gelatin holograms with low absorption and scatter. <i>Journal of Modern Optics</i> , 1998 , 45, 1985-1992	1.1	2
54	High-efficiency silver-halide sensitized gelatin holograms with low absorption and scatter. <i>Journal of Modern Optics</i> , 1998 , 45, 1985-1992	1.1	16
53	Method for the characterization of hologram processing. <i>Journal of Modern Optics</i> , 1998 , 45, 881-888	1.1	10
52	Quantum yield and molar absorptivity for a dye photobleaching in a holographic recording material 1998 , 3294, 91		3
51	Axial irradiance and entropy of holographic optical elements under illumination with quasi-monochromatic light. <i>Journal of Modern Optics</i> , 1997 , 44, 431-438	1.1	
50	Holographic optical elements in the presence of spherical aberration and focus error: Some remarks on imaging quality. <i>Journal of Modern Optics</i> , 1996 , 43, 1435-1450	1.1	
49	Diffuse-object holograms in silver halide emulsions: influence of the beam ratio on the efficiency and the signal-to-noise ratio. <i>Applied Optics</i> , 1996 , 35, 782-6	1.7	1
48	Holographic storage in bleached emulsion of N divergent object beams generated by a two-dimensional regular array: analysis of the signal-to-noise ratio. <i>Applied Optics</i> , 1996 , 35, 5237-41	1.7	
47	New photopolymer with trifunctional monomer for holographic applications. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 63, 151-153	1.9	4
46	Diffraction efficiency and signal-to-noise ratio of multiplexed volume phase holograms recorded in a photographic emulsion. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 63, 29-34	1.9	

45	Magnification and visual acuity in highly myopic phakic eyes corrected with an anterior chamber intraocular lens versus by other methods. <i>Journal of Cataract and Refractive Surgery</i> , 1996 , 22, 1416-22	2.3	42
44	Real-time transmittance function in photopolymers of acrylamide composition: noise gratings 1996		2
43	Experimental evaluation of entropy for transmission holographic optical elements. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 62, 45-50	1.9	3
42	Silver halide sensitized gelatin as a holographic recording material. <i>Optics and Laser Technology</i> , 1995 , 27, 285-292	4.2	8
41	Nonlinear Response of Photopolymers for Holography: Copolymerization Process. <i>Journal of Modern Optics</i> , 1995 , 42, 1351-1354	1.1	1
40	The computation and statistical analysis of aberrational diffraction patterns in holographic optical elements. <i>Journal of Optics</i> , 1995 , 26, 161-174		2
39	Noise sources in silver halide volume diffuse-object holograms. <i>Optical Engineering</i> , 1995 , 34, 1108	1.1	10
38	Self-induced phase gratings due to the inhomogeneous structure of acrylamide photopolymer systems used as holographic recording materials. <i>Applied Physics Letters</i> , 1995 , 67, 3856-3858	3.4	18
37	Diffuse-object Holograms in Silver Halide Sensitized Gelatin. <i>Journal of Modern Optics</i> , 1994 , 41, 649-653	1.1	5
36	Noise sources in silver halide volume holograms 1994 , 2176, 153		
35	Calculation of shear angles in holographic gratings recorded in bleached silver-halide emulsions. <i>Applied Physics B: Lasers and Optics</i> , 1994 , 59, 553-561	1.9	4
34	Experimental evaluation of shearing effects in volume holograms formed in bleached photographic emulsions. <i>Optics and Laser Technology</i> , 1994 , 26, 341-349	4.2	1
33	Nonlinear recording of amplitude holograms in agfa 8E75HD: comparison of two developers. <i>Optics Communications</i> , 1994 , 111, 225-232	2	7
32	Noise gratings in bleached silver halide diffuse-object holograms. <i>Optics Letters</i> , 1994 , 19, 1243-5	3	8
31	Entropy-based study of imaging quality in holographic optical elements. <i>Optics Letters</i> , 1994 , 19, 1355-7	3	9
30	Axial irradiance for spherically aberrated holographic optical elements. <i>Optics Letters</i> , 1994 , 19, 1477-9	3	4
29	Copying computer-generated-holographic interconnects by the use of partially coherent light. <i>Applied Optics</i> , 1994 , 33, 1431-3	1.7	4
28	Holographic optical elements recorded on spherical surfaces with photopolymers. <i>Applied Optics</i> , 1994 , 33, 3633-4	1.7	5

27	Signal-to-noise ratio of nonlinearity recorded holograms of diffuse objects. <i>Applied Optics</i> , 1994 , 33, 7606-10	1.7	
26	Statistical Model for Noise Gratings Recorded in Volume Holograms. <i>Journal of Modern Optics</i> , 1993 , 40, 1299-1308	1.1	4
25	Holographic Noise Gratings for Analysing and Optimizing Photochemical Processings in Bleached Silver Halide Emulsions. <i>Journal of Modern Optics</i> , 1993 , 40, 687-697	1.1	10
24	New theoretical matrix formula for intraocular lens calculation using the optimal bending factor. <i>Journal of Cataract and Refractive Surgery</i> , 1993 , 19, 293-7	2.3	10
23	Noise gratings in thick-phase holographic lenses. <i>Journal of Optics</i> , 1993 , 24, 99-105		3
22	The use of partially coherent light to reduce the efficiency of silver halide noise gratings. <i>Optics Communications</i> , 1993 , 98, 236-240	2	25
21	Noise gratings recorded with single-beam exposures in silver halide emulsions: the influence of the bleach bath. <i>Optical and Quantum Electronics</i> , 1993 , 25, 139-145	2.4	6
20	Copying holograms using light of reduced spatial and temporal coherence. <i>Applied Optics</i> , 1993 , 32, 6456-7		1
19	Polarization influences on the efficiency of noise gratings recorded in silver halide holograms. <i>Applied Optics</i> , 1993 , 32, 7155-63	1.7	3
18	Influences of Recording Geometry Parameters on Diffraction Efficiency in Bleached Silver Halide Transmission Holograms. <i>Journal of Modern Optics</i> , 1992 , 39, 1855-1861	1.1	3
17	Efficiency of Thick Phase Holograms in the Presence of Shear-type Effects Due to Processing. <i>Journal of Modern Optics</i> , 1992 , 39, 889-899	1.1	7
16	Model for analyzing the effects of processing on recording material in thick holograms. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1992 , 9, 1214	1.8	14
15	Analysis of the holographic reciprocity law for dichromated gelatin. <i>Applied Optics</i> , 1992 , 31, 3200-1	1.7	1
14	Influence of R-10 bleaching on latent image formation in silver halide-sensitized gelatin. <i>Applied Optics</i> , 1992 , 31, 3203-5	1.7	7
13	Holographic system for copying holograms by using partially coherent light. <i>Applied Optics</i> , 1992 , 31, 3312-9	1.7	14
12	Optimized spatial frequency response in silver halide sensitized gelatin. <i>Applied Optics</i> , 1992 , 31, 4625-7	1.7	10
11	Effective holographic grating model to analyze thick holograms 1991 , 1507, 268		2
10	Transformation of wavefront aberrations of holographic lenses for a general position of the exit pupil. <i>Journal of Optics</i> , 1991 , 22, 163-173		2

9	Optimization of reconstruction geometry for maximum diffraction efficiency in HOE: the influence of recording material 1991 ,		2
8	Silver Halide (Sensitized) Gelatin in Agfa-Gevaert Plates: The Optimized Procedure. <i>Journal of Modern Optics</i> , 1991 , 38, 2043-2051	1.1	30
7	A two-step method for recording holographic optical elements with partially coherent light. <i>Journal of Optics</i> , 1991 , 22, 135-140		10
6	Holographic collimator of diameter 200 mm in silver halide sensitized gelatin. <i>Journal of Optics</i> , 1990 , 21, 211-215		4
5	Influences Of Recording Materials In HOE 1989 , 1136, 58		1
4	Imaging in white light with a thick-phase transmission holographic doublet. <i>Journal of Optics</i> , 1989 , 20, 263-268		7
3	Silver-Halide Sensitized Holograms And Their Applications 1989 , 1136, 53		3
2	Silver Halide Sensitized Gelatin As A Holographic Storage Medium 1988 ,		4
1	Optimization of a fixation-free rehalogenating bleach for BB-640 holographic emulsion		2