

Oscar Gomez Calderon

List of Publications by Year in descending order

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87
papers

1,820
citations

279487

23
h-index

288905

40
g-index

87
all docs

87
docs citations

87
times ranked

1730
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure evolution in magnetorheological suspensions governed by Mason number. <i>Physical Review E</i> , 2003, 68, 041503.	0.8	149
2	Synthesis of Light-Diffracting Assemblies from Microspheres and Nanoparticles in Droplets on a Superhydrophobic Surface. <i>Advanced Materials</i> , 2008, 20, 4263-4268.	11.1	147
3	Extreme Midinfrared Nonlinear Optics in Semiconductors. <i>Physical Review Letters</i> , 2001, 86, 3292-3295.	2.9	108
4	Rotational dynamics in dipolar colloidal suspensions: video microscopy experiments and simulations results. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2002, 102, 135-148.	1.0	80
5	Spontaneously generated coherence effects in a laser-driven four-level atomic system. <i>Physical Review A</i> , 2005, 72, .	1.0	72
6	Polarizable Particle Aggregation Under Rotating Magnetic Fields Using Scattering Dichroism. <i>Journal of Colloid and Interface Science</i> , 2002, 247, 200-209.	5.0	69
7	Plasmonic effects in excitonic population transfer in a driven semiconductor-metal nanoparticle hybrid system. <i>Physical Review B</i> , 2012, 86, .	1.1	68
8	Förster Resonance Energy Transfer Distance Dependence from Upconverting Nanoparticles to Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18751-18758.	1.5	65
9	Optical bistability using quantum interference in V-type atoms. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2002, 4, 91-98.	1.4	59
10	All-optical switching and storage in a four-level tripod-type atomic system. <i>Optics Communications</i> , 2006, 268, 146-154.	1.0	58
11	Ultrafast photochemistry produces superbright short-wave infrared dots for low-dose in vivo imaging. <i>Nature Communications</i> , 2020, 11, 2933.	5.8	56
12	Control of upconversion luminescence by gold nanoparticle size: from quenching to enhancement. <i>Nanoscale</i> , 2019, 11, 13832-13844.	2.8	45
13	Superluminal and slow light in Λ -type three-level atoms via squeezed vacuum and spontaneously generated coherence. <i>Physical Review A</i> , 2005, 71, .	1.0	40
14	Optical switching by controlling the double-dark resonances in a N-tripod five-level atom. <i>Optics Communications</i> , 2008, 281, 6040-6048.	1.0	36
15	Optical pumping of a single hole spin in a p -doped quantum dot coupled to a metallic nanoparticle. <i>Physical Review B</i> , 2013, 87, .	1.1	36
16	Optical bistability in V-type atoms driven by a coherent field in a broadband squeezed vacuum. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 311, 297-312.	0.9	32
17	Oligonucleotide Sensor Based on Selective Capture of Upconversion Nanoparticles Triggered by Target-Induced DNA Interstrand Ligand Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12272-12281.	4.0	30
18	Squeezing in Λ -type three-level atom via spontaneously generated coherence. <i>Physical Review A</i> , 2005, 72, .	1.0	29

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19	Effect of ion concentration on slow light propagation in highly doped erbium fibers. Optics Communications, 2007, 279, 53-63.	1.0	29
20	Observation of large 10-Gb/s SBS slow light delay with low distortion using an optimized gain profile. Optics Express, 2008, 16, 16032.	1.7	28
21	Quantum interference effects in resonance fluorescence and absorption spectra of a V-type three-level atom damped by a broadband squeezed vacuum. Optics Communications, 2003, 221, 365-385.	1.0	27
22	Slow and fast light based on coherent population oscillations in erbium-doped fibres. Journal of Optics (United Kingdom), 2010, 12, 104002.	1.0	27
23	Tunable all-optical bistability in a semiconductor quantum dot damped by a phase-dependent reservoir. Optics Communications, 2008, 281, 3301-3313.	1.0	25
24	10-Fold Quantum Yield Improvement of Ag ₂ S Nanoparticles by Fine Compositional Tuning. ACS Applied Materials & Interfaces, 2020, 12, 12500-12509.	4.0	25
25	Plasmon-enhanced terahertz emission in self-assembled quantum dots by femtosecond pulses. Journal of Applied Physics, 2014, 115, 064304.	1.1	23
26	High harmonic generation induced by permanent dipole moments. IEEE Journal of Quantum Electronics, 1999, 35, 47-52.	1.0	22
27	Laser emission of a flash-lamp pumped Rhodamine 6 G solid copolymer solution. Applied Physics Letters, 1997, 70, 25-27.	1.5	20
28	Time-Resolved Dynamics of Two-Dimensional Transverse Patterns in Broad Area Lasers. Physical Review Letters, 2004, 93, 213904.	2.9	18
29	CHAIN ROTATIONAL DYNAMICS IN MR SUSPENSIONS. International Journal of Modern Physics B, 2002, 16, 2293-2299.	1.0	17
30	Modulation-frequency-controlled change from sub- to superluminal regime in highly doped erbium fibers. Optics Letters, 2008, 33, 827.	1.7	17
31	Contribution of resonance energy transfer to the luminescence quenching of upconversion nanoparticles with graphene oxide. Journal of Colloid and Interface Science, 2020, 575, 119-129.	5.0	16
32	Boosting the Near-Infrared Emission of Ag ₂ S Nanoparticles by a Controllable Surface Treatment for Bioimaging Applications. ACS Applied Materials & Interfaces, 2022, 14, 4871-4881.	4.0	16
33	Dynamics of simple magnetorheological suspensions under rotating magnetic fields with modulated Mason number. Journal Physics D: Applied Physics, 2002, 35, 2492-2498.	1.3	15
34	Superradiance from an ultrathin film of three-level V-type atoms: interplay between splitting, quantum coherence and local-field effects. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, 313-321.	1.4	15
35	Development of spatial turbulence from boundary-controlled patterns in class-B lasers. Physical Review A, 2006, 73, .	1.0	15
36	Control of the inversionless gain and refractive index in a V-type atom via squeezed vacuum and quantum interference. Physical Review A, 2004, 69, .	1.0	14

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37	Propagation-induced transition from slow to fast light in highly doped erbium fibers. <i>Physical Review A</i> , 2008, 78, .	1.0	14
38	The effects of dopant concentration and excitation intensity on the upconversion and downconversion emission processes of $\text{F}^{2+}\text{-NaYF}_4\text{:Yb}^{3+},\text{Er}^{3+}$ nanoparticles. <i>Journal of Materials Chemistry C</i> , 0, .	2.7	14
39	Group velocity coupling and synchronization-like phenomenon of two light beams based on coherent population oscillations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 215401.	0.6	13
40	Subluminal and superluminal propagation in a three-level atom in the radiative limit based on coherent population oscillations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6334-6339.	0.9	12
41	Phase tunability of group velocity by modulated-pump-forced coherent population oscillations. <i>Physical Review A</i> , 2009, 80, .	1.0	12
42	Optical bistability in lasers induced by active molecules with a large permanent dipole moment. <i>Physical Review A</i> , 2002, 65, .	1.0	11
43	Doublet dynamics of magnetizable particles under frequency modulated rotating fields. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 270-271, 270-276.	2.3	11
44	Experimental evidence of antiphase population dynamics in lasers. <i>Physical Review A</i> , 2005, 72, .	1.0	11
45	Pulse-width-dependent subluminal and superluminal propagation in highly doped erbium fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 1172.	0.9	11
46	Measurement of the spatiotemporal dynamics of simple transverse patterns in a pulsed transversely excited atmospheric CO ₂ laser. <i>Physical Review A</i> , 1999, 59, 4764-4772.	1.0	10
47	Dynamic transition from modelike patterns to turbulentlike patterns in a broad-area Nd:YAG laser. <i>Optics Letters</i> , 2006, 31, 1067.	1.7	10
48	Transverse-mode selection in single-longitudinal-mode lasers. <i>Physical Review A</i> , 1996, 53, 3490-3496.	1.0	9
49	All-optical control of the time delay in a one-dimensional photonic bandgap formed by double-quantum-wells. <i>Optics Communications</i> , 2008, 281, 644-654.	1.0	9
50	Competition between the modulation instability and stimulated Brillouin scattering in a broadband slow light device. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 104019.	1.0	9
51	Slow Light in Molecular-Aggregate Nanofilms. <i>Physical Review Letters</i> , 2011, 107, 013901.	2.9	9
52	Modulated desynchronism in short pulse free-electron laser oscillators. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2000, 3, .	1.8	8
53	Local-field effects in pattern formation in large-aspect-ratio lasers. <i>Physical Review A</i> , 2003, 67, .	1.0	8
54	Effect of ion pairs in fast-light bandwidth in high-concentration erbium-doped fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, C55.	0.9	8

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55	Phase-controlled slow and fast light in current-modulated semiconductor optical amplifiers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 095403.	0.6	8
56	Pattern formation in large-aspect-ratio single-mode inhomogeneously broadened lasers. <i>Physical Review A</i> , 2004, 70, .	1.0	7
57	Squeezing spectra in a V-type three-level atom interacting with a broadband squeezed field. <i>Optics Communications</i> , 2004, 234, 281-294.	1.0	7
58	Dynamic population gratings in highly doped erbium fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 1631.	0.9	6
59	Homogeneous broadening effect on temperature dependence of green upconversion luminescence in erbium doped fibers. <i>Journal of Luminescence</i> , 2013, 139, 52-59.	1.5	6
60	Oligonucleotide sensor based on magnetic capture and photoligation of upconverting nanoparticles in solid surfaces. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 64-74.	5.0	6
61	In Vivo Near-Infrared Imaging Using Ternary Selenide Semiconductor Nanoparticles with an Uncommon Crystal Structure. <i>Small</i> , 2021, 17, e2103505.	5.2	6
62	Intensity-intensity correlations in a V-type atom driven by a coherent field in a broadband squeezed vacuum. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, 315-327.	1.4	5
63	Spectral hole burning in erbium-doped fibers for slow light. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 2189.	0.9	5
64	The role of the solvent viscosity on the spatiotemporal instabilities of large aperture dye lasers. <i>Applied Physics Letters</i> , 1998, 73, 557-559.	1.5	4
65	FAST LIGHT ENHANCEMENT BY BIDIRECTIONAL PUMPING IN ERBIUM-DOPED FIBERS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2010, 19, 153-165.	1.1	4
66	Loss-induced transverse effects in lasers. <i>Optics Communications</i> , 1997, 143, 315-321.	1.0	3
67	From Nearly Tilted Waves to Cavity Phase Solitons in Broad Area Lasers with Squeezed Vacuum. <i>Physical Review Letters</i> , 2004, 92, 163901.	2.9	3
68	Electronic-vibrational coupling effects in the single mode laser. <i>Optics Communications</i> , 1996, 125, 369-376.	1.0	2
69	Evolution of the Correlation between Orthogonal Polarization Patterns in Broad-Area Lasers. <i>Physical Review Letters</i> , 2006, 97, 233902.	2.9	2
70	Thermally induced all-optical inverter and dynamic hysteresis loops in graphene oxide dispersions. <i>Applied Optics</i> , 2015, 54, 9143.	2.1	2
71	Transverse effects in the laser threshold due to electronic-vibrational coupling. <i>Physical Review A</i> , 1998, 57, 2056-2065.	1.0	1
72	Resonantlike phenomenon in short-pulse free-electron-laser oscillators with modulated desynchronization. <i>Physical Review E</i> , 2001, 65, 016504.	0.8	1

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73	Effect of Ion Pairs in Fast-Light Bandwidth in High-Concentration Erbium-Doped Fibers. , 2008, , .		1
74	Phase shift of amplitude-modulated optical signals in graphene oxide water dispersions due to thermal lens focal length oscillation. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1018.	0.9	1
75	Increasing applicability of slow light in molecular aggregate nanofilms with two-exciton dynamics. Optics Letters, 2016, 41, 2569.	1.7	1
76	Control of the Group Velocity of Light in Erbium Doped Fibers Via the Modulation Frequency. , 2008, , .		1
77	Phase-controlled slow and fast light in current-modulated semiconductor optical amplifiers. , 2009, , .		1
78	Local irregular intensity fluctuations in high-Fresnel-number dye lasers. , 1998, 3265, 29.		0
79	Stochastic resonance in free-electron lasers. Physical Review E, 2000, 63, 016502.	0.8	0
80	Modulated desynchronism in a free-electron laser oscillator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 475, 143-146.	0.7	0
81	Effects of injected atomic coherence in broad-area lasers. Physical Review A, 2005, 72, .	1.0	0
82	Publisher's Note: Slow Light in Molecular-Aggregate Nanofilms [Phys. Rev. Lett. 107, 013901 (2011)]. Physical Review Letters, 2012, 108, .	2.9	0
83	Slow light propagation experiments in highly-doped erbium fibers. , 2006, , .		0
84	Dynamic control of the time delay in a semiconductor quantum well. , 2006, , .		0
85	Observation of large 8-Gb/s SBS slow light delay with low distortion using an optimized gain profile. , 2008, , .		0
86	Pulse width depending group velocity on Erbium-doped fibers. , 2009, , .		0
87	Fast light in erbium doped fibers based on coherent population oscillations with nonlinear negative absorption.. , 2011, , .		0