

Giuseppe Della Valle

List of Publications by Year in descending order

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126
papers

4,418
citations

94269

37
h-index

118652

62
g-index

127
all docs

127
docs citations

127
times ranked

4078
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromachining of photonic devices by femtosecond laser pulses. Journal of Optics, 2009, 11, 013001.	1.5	283
2	Er:Yb-doped waveguide laser fabricated by femtosecond laser pulses. Optics Letters, 2004, 29, 2626.	1.7	175
3	Visualization of Coherent Destruction of Tunneling in an Optical Double Well System. Physical Review Letters, 2007, 98, 263601.	2.9	161
4	Coherent tunneling by adiabatic passage in an optical waveguide system. Physical Review B, 2007, 76, .	1.1	159
5	Plasmon Dynamics in Colloidal Cu ₂ S Nanocrystals. Nano Letters, 2011, 11, 4711-4717.	4.5	158
6	Plasmonic metamaterial wave retarders in reflection by orthogonally oriented detuned electrical dipoles. Optics Letters, 2011, 36, 1626.	1.7	124
7	Fractional Bloch oscillations in photonic lattices. Nature Communications, 2013, 4, 1555.	5.8	119
8	Non-Hermitian transparency and one-way transport in low-dimensional lattices by an imaginary gauge field. Physical Review B, 2015, 92, .	1.1	115
9	1.5 μ m single longitudinal mode waveguide laser fabricated by femtosecond laser writing. Optics Express, 2007, 15, 3190.	1.7	107
10	Optical waveguide writing with a diode-pumped femtosecond oscillator. Optics Letters, 2004, 29, 1900.	1.7	91
11	Passive mode locking by carbon nanotubes in a femtosecond laser written waveguide laser. Applied Physics Letters, 2006, 89, 231115.	1.5	91
12	Waveguide lasers in the C-band fabricated by laser inscription with a compact femtosecond oscillator. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 277-285.	1.9	90
13	C-band waveguide amplifier produced by femtosecond laser writing. Optics Express, 2005, 13, 5976.	1.7	83
14	Non-Hermitian shortcut to adiabaticity. Physical Review A, 2013, 87, .	1.0	82
15	Adiabatic light transfer via dressed states in optical waveguide arrays. Applied Physics Letters, 2008, 92, .	1.5	78
16	Plasmonics in heavily-doped semiconductor nanocrystals. European Physical Journal B, 2013, 86, 1.	0.6	76
17	Dynamic band collapse in photonic graphene. New Journal of Physics, 2013, 15, 013012.	1.2	72
18	Derivation of third-order nonlinear susceptibility of thin metal films as a delayed optical response. Physical Review B, 2012, 85, .	1.1	71

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19	Femtosecond laser written optical waveguide amplifier in phospho-tellurite glass. Optics Express, 2010, 18, 20289.	1.7	70
20	Spectral and transport properties of time-periodic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric tight-binding lattices. Physical Review A, 2013, 87, .	1.0	70
21	Nonlinear Anisotropic Dielectric Metasurfaces for Ultrafast Nanophotonics. ACS Photonics, 2017, 4, 2129-2136.	3.2	70
22	Non-Hermitian shortcut to stimulated Raman adiabatic passage. Physical Review A, 2014, 89, .	1.0	67
23	Experimental demonstration of the optical Zeno effect by scanning tunneling optical microscopy. Optics Express, 2008, 16, 3762.	1.7	62
24	Plasmon-polariton nano-strip resonators: from visible to infra-red. Optics Express, 2008, 16, 6867.	1.7	62
25	Transient Optical Response of a Single Gold Nanoantenna: The Role of Plasmon Detuning. ACS Photonics, 2015, 2, 521-529.	3.2	62
26	Enhanced generation of nondegenerate photon pairs in nonlinear metasurfaces. Advanced Photonics, 2021, 3, .	6.2	62
27	Particle Statistics Affects Quantum Decay and Fano Interference. Physical Review Letters, 2015, 114, 090201.	2.9	56
28	Active waveguides written by femtosecond laser irradiation in an erbium-doped phospho-tellurite glass. Optics Express, 2008, 16, 15198.	1.7	55
29	Theoretical analysis of gold nano-strip gap plasmon resonators. New Journal of Physics, 2008, 10, 105008.	1.2	54
30	Lasing in femtosecond laser written optical waveguides. Applied Physics A: Materials Science and Processing, 2008, 93, 17-26.	1.1	53
31	Widely tunable continuous-wave diode-pumped 2- μm Tm ³⁺ :Ho:KYF ₄ laser. Optics Letters, 2004, 29, 715.	1.7	51
32	Goos-Hänchen shift in complex crystals. Physical Review A, 2011, 84, .	1.0	51
33	Slow light in periodic superstructure Bragg gratings. Physical Review E, 2005, 72, 056605.	0.8	50
34	Transient optical symmetry breaking for ultrafast broadband dichroism in plasmonic metasurfaces. Nature Photonics, 2020, 14, 723-727.	15.6	48
35	Ultrafast Optical Mapping of Nonlinear Plasmon Dynamics in Cu ₂ S Nanoparticles. Journal of Physical Chemistry Letters, 2013, 4, 3337-3344.	2.1	47
36	Experimental Observation of a Photon Bouncing Ball. Physical Review Letters, 2009, 102, 180402.	2.9	44

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37	Floquet bound states in the continuum. <i>Scientific Reports</i> , 2013, 3, 2219.	1.6	42
38	Optical tuning of dielectric nanoantennas for thermo-optically reconfigurable nonlinear metasurfaces. <i>Optics Letters</i> , 2021, 46, 2453.	1.7	40
39	Compact high gain erbium-ytterbium doped waveguide amplifier fabricated by Ag-Na ion exchange. <i>Electronics Letters</i> , 2006, 42, 632.	0.5	39
40	Microfluidic device for continuous single cells analysis via Raman spectroscopy enhanced by integrated plasmonic nanodimers. <i>Optics Express</i> , 2016, 24, A180.	1.7	38
41	Quasi-Static Resonances in the Visible Spectrum from All-Dielectric Intermediate Band Semiconductor Nanocrystals. <i>Nano Letters</i> , 2017, 17, 7691-7695.	4.5	38
42	Topological suppression of optical tunneling in a twisted annular fiber. <i>Physical Review A</i> , 2007, 76, .	1.0	37
43	Invisible defects in complex crystals. <i>Annals of Physics</i> , 2013, 334, 35-46.	1.0	36
44	Optical lattices with exceptional points in the continuum. <i>Physical Review A</i> , 2014, 89, .	1.0	36
45	Single-mode and high power waveguide lasers fabricated by ion-exchange. <i>Optics Express</i> , 2008, 16, 12334.	1.7	33
46	Erbium-doped waveguide amplifier for reconfigurable WDM metro networks. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 1468-1470.	1.3	30
47	Ultrafast, All Optically Reconfigurable, Nonlinear Nanoantenna. <i>ACS Nano</i> , 2021, 15, 11150-11157.	7.3	30
48	Plasmon hybridization engineering in self-organized anisotropic metasurfaces. <i>Nano Research</i> , 2018, 11, 3943-3956.	5.8	28
49	Light-to-heat conversion dynamics in highly diversified water-dispersed hydrophobic nanocrystal assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8161-8166.	3.3	27
50	Visualization of two-photon Rabi oscillations in evanescently coupled optical waveguides. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 085402.	0.6	25
51	Correlated super-Bloch oscillations. <i>Physical Review B</i> , 2012, 86, .	1.1	25
52	Subwavelength diffraction control and self-imaging in curved plasmonic waveguide arrays. <i>Optics Letters</i> , 2010, 35, 673.	1.7	24
53	Self-organized plasmonic metasurfaces for all-optical modulation. <i>Physical Review B</i> , 2015, 91, .	1.1	24
54	Coherent narrowband light source for ultrafast photoelectron spectroscopy in the 17-31 eV photon energy range. <i>Structural Dynamics</i> , 2020, 7, 014303.	0.9	24

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55	Photonic realization of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi mathvariant="script">PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-symmetric quantum field theories. Physical Review A, 2012, 85, .$	1.0	22
56	Coherent destruction of tunneling of two interacting bosons in a tight-binding lattice. Physical Review A, 2012, 86, .	1.0	21
57	Broadband and Tunable Light Harvesting in Nanorippled MoS ₂ Ultrathin Films. ACS Applied Materials & Interfaces, 2021, 13, 13508-13516.	4.0	21
58	Optical buffering in phase-shifted fibre gratings. Electronics Letters, 2005, 41, 1075.	0.5	20
59	Geometric potential for plasmon polaritons on curved surfaces. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 051002.	0.6	20
60	Evidence of Plasmon Enhanced Charge Transfer in Large-Area Hybrid Au-MoS ₂ Metasurface. Advanced Optical Materials, 2020, 8, 2000653.	3.6	20
61	Plasmonic control of drug release efficiency in agarose gel loaded with gold nanoparticle assemblies. Nanophotonics, 2020, 10, 247-257.	2.9	20
62	Tunneling control of strongly correlated particles on a lattice: a photonic realization. Optics Letters, 2011, 36, 4743.	1.7	19
63	Anyons in one-dimensional lattices: a photonic realization. Optics Letters, 2012, 37, 2160.	1.7	19
64	Coherent perfect absorbers for transient, periodic, or chaotic optical fields: Time-reversed lasers beyond threshold. Physical Review A, 2012, 85, .	1.0	19
65	Floquet-Hubbard bound states in the continuum. Physical Review B, 2014, 89, .	1.1	19
66	Thermometric Calibration of the Ultrafast Relaxation Dynamics in Plasmonic Au Nanoparticles. ACS Photonics, 2020, 7, 959-966.	3.2	19
67	All-Optically Reconfigurable Plasmonic Metagrating for Ultrafast Diffraction Management. Nano Letters, 2021, 21, 1345-1351.	4.5	19
68	Many-particle quantum decay and trapping: The role of statistics and Fano resonances. Physical Review A, 2012, 86, .	1.0	18
69	Ultra-broadband photon harvesting in large-area few-layer MoS ₂ nanostripe gratings. Nanoscale, 2020, 12, 24385-24393.	2.8	18
70	Quantum transport in bipartite lattices via Landau-Zener tunneling. Physical Review A, 2012, 86, .	1.0	17
71	Disentangling electrons and lattice nonlinear optical response in metal-dielectric Bragg filters. Physical Review B, 2014, 89, .	1.1	17
72	Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS ₂ Sheets. ACS Photonics, 2018, 5, 3363-3371.	3.2	17

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73	Efficient suppression of radiation damping in resonant retardation-based plasmonic structures. <i>Physical Review B</i> , 2009, 79, .	1.1	16
74	Ag+Na ⁺ ion exchange from dilute melt: guidelines for planar waveguide fabrication on a commercial phosphate glass. <i>Optical Materials</i> , 2003, 23, 559-567.	1.7	15
75	Anionic Bloch oscillations. <i>Physical Review B</i> , 2012, 85, .	1.1	15
76	Discrete diffraction in waveguide arrays: A quantitative analysis by tunneling optical microscopy. <i>Applied Physics Letters</i> , 2007, 90, .	1.5	14
77	Imaginary Kapitza pendulum. <i>Physical Review A</i> , 2013, 88, .	1.0	14
78	Color Routing via Cross-Polarized Detuned Plasmonic Nanoantennas in Large-Area Metasurfaces. <i>Nano Letters</i> , 2020, 20, 4121-4128.	4.5	14
79	High-Q plasmonic resonators based on metal split nanocylinders. <i>Physical Review B</i> , 2009, 80, .	1.1	13
80	Graded index surface-plasmon-polariton devices for subwavelength light management. <i>Physical Review B</i> , 2010, 82, .	1.1	13
81	Non-Hermitian time-dependent perturbation theory: Asymmetric transitions and transitionless interactions. <i>Annals of Physics</i> , 2017, 385, 744-756.	1.0	11
82	All-Optical Modulation with Dielectric Nanoantennas: Multiresonant Control and Ultrafast Spatial Inhomogeneities. <i>Small Science</i> , 2021, 1, 2000079.	5.8	11
83	Ultrafast Plasmonics Beyond the Perturbative Regime: Breaking the Electronic-Optical Dynamics Correspondence. <i>Nano Letters</i> , 2022, 22, 2748-2754.	4.5	11
84	Absence of Floquet scattering in oscillating non-Hermitian potential wells. <i>Physical Review A</i> , 2013, 87, .	1.0	10
85	Disentangling the Temporal Dynamics of Nonthermal Electrons in Photoexcited Gold Nanostructures. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100017.	4.4	10
86	Chemically-Controlled Ultrafast Photothermal Response in Plasmonic Nanostructured Assemblies. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6308-6317.	1.5	9
87	Mixed Rabi-Jaynes-Cummings model of a three-level atom interacting with two quantized fields. <i>Optics Communications</i> , 2015, 346, 110-114.	1.0	8
88	Ultrafast Spectroscopy of Graphene-Protected Thin Copper Films. <i>ACS Photonics</i> , 2016, 3, 1508-1516.	3.2	8
89	Enhanced generation of angle correlated photon-pairs in nonlinear metasurfaces. <i>New Journal of Physics</i> , 2022, 24, 035006.	1.2	8
90	Ray and wave instabilities in twisted graded-index optical fibers. <i>Physical Review E</i> , 2004, 69, 056608.	0.8	7

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91	Gain-Stabilized Erbium-Doped Waveguide Amplifier for Burst Transmission. IEEE Photonics Technology Letters, 2007, 19, 97-99.	1.3	7
92	Femtosecond Laser Microfabrication of an Integrated Device for Optical Release and Sensing of Bioactive Compounds. Sensors, 2008, 8, 6595-6604.	2.1	7
93	Classical realization of two-site Fermi-Hubbard systems. Physical Review B, 2011, 84, .	1.1	7
94	Lasers and Coherent Light Sources. , 2012, , 641-1046.		7
95	Klein tunneling of two correlated bosons. European Physical Journal B, 2013, 86, 1.	0.6	7
96	Quantitative Ultrafast Electron Temperature Dynamics in Photo-Excited Au Nanoparticles. Small, 2021, 17, e2100050.	5.2	7
97	Generation of micro- and THz-waves at 1.5 [micro sign]m by dual-frequency Er:Yb laser. Electronics Letters, 2001, 37, 1463.	0.5	6
98	Classical simulation of the Hubbard-Holstein dynamics with optical waveguide lattices. Physical Review B, 2011, 84, .	1.1	6
99	Realization of interacting quantum field theories in driven tight-binding lattices. New Journal of Physics, 2012, 14, 053026.	1.2	6
100	Low-energy doublons in the ac-driven two-species Hubbard model. Physical Review A, 2013, 87, .	1.0	6
101	Geometrical Engineering of Giant Optical Dichroism in Rippled MoS ₂ Nanosheets. Advanced Optical Materials, 2021, 9, 2001408.	3.6	6
102	All-Optical Reconfiguration of Ultrafast Dichroism in Gold Metasurfaces. Advanced Optical Materials, 2022, 10, .	3.6	6
103	Dynamic reflectionless defects in tight-binding lattices. Physical Review B, 2011, 84, .	1.1	5
104	Hot carrier spatio-temporal inhomogeneities in ultrafast nanophotonics. New Journal of Physics, 2022, 24, 045001.	1.2	5
105	Metal split-cylinder resonators for plasmonic nanosensing. Journal of Optics (United Kingdom), 2011, 13, 095001.	1.0	4
106	Quantum simulation of the Riemann-Hurwitz zeta function. Physical Review A, 2013, 87, .	1.0	4
107	Twisted-mode single-frequency Er:Yb waveguide laser at 1.5 μ m. Optical and Quantum Electronics, 2003, 35, 669-674.	1.5	3
108	Stability of astigmatic and twisted optical lensguides. Optical and Quantum Electronics, 2004, 36, 1061-1078.	1.5	3

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109	Efficient suppression of radiation damping in individual plasmonic resonators: towards high-Q nano-volume sensing. <i>Annalen Der Physik</i> , 2012, 524, 253-272.	0.9	3
110	On the limits of quasi-static theory in plasmonic nanostructures. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 015001.	1.0	3
111	Transient insensitive all-fibre gain-clamped EDFA based on highly-doped Er:Yb-fibre. <i>Electronics Letters</i> , 2006, 42, 594.	0.5	2
112	Optical Amplifier for WDM Burst Transmission. , 2006, , .		2
113	Investigation of Transients in Single-Fiber Bidirectional Closed-Loop WDM Ring Network Using High-Power Gain Clamped EDWA. <i>Journal of Lightwave Technology</i> , 2009, 27, 88-93.	2.7	2
114	Field-induced ferromagnetism in one-dimensional tight-binding lattices. <i>Europhysics Letters</i> , 2013, 101, 67006.	0.7	2
115	Waveguide Lasers in Er:Yb-Doped Phosphate Glass Fabricated by Femtosecond Laser Writing. , 2007, , .		1
116	Advanced waveguide lasers fabricated by femtosecond laser writing in an Er:Yb-doped phosphate glass. , 2007, , .		1
117	Integrated fiber-coupled launcher for slow plasmon-polariton waves. <i>Optics Express</i> , 2012, 20, 3158.	1.7	1
118	Self-Organized Conductive Gratings of Au Nanostripe Dimers Enable Tunable Plasmonic Activity. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1301.	1.3	1
119	Waveguide amplifiers and lasers written by femtosecond laser pulses. , 2005, 5714, 229.		0
120	Investigation of Optical-Burst-Transmission Induced Impairment in Gain-Clamped Amplifiers. , 2007, , .		0
121	Tailoring the optical properties of one-dimensional (1D) photonic structures. , 2017, , .		0
122	Tracking Ultrafast Energy Flow in Plasmonic Nanocrystal Assemblies. , 2019, , .		0
123	Ultrafast interband nonlinear dynamics of surface plasmon polaritons in gold nanowires. , 2013, , .		0
124	Self-organized metasurfaces enabling plasmon hybridization. , 2019, , .		0
125	Tuning the transient opto-electronic properties of few-layer MoS2 nanosheets via substrate nano-patterning. <i>EPJ Web of Conferences</i> , 2020, 238, 07006.	0.1	0
126	Photoinduced transient symmetry breaking in plasmonic structures for ultrafast nanophotonics. , 2022, , .		0