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	On the limits of quasi-static theory in plasmonic nanostructures. Journal of Optics (United Kingdom), 2022, 24, 015001.	1.0	3
2	Photoinduced transient symmetry breaking in plasmonic structures for ultrafast nanophotonics. , 2022, , .		0
3	Chemically-Controlled Ultrafast Photothermal Response in Plasmonic Nanostructured Assemblies. Journal of Physical Chemistry C, 2022, 126, 6308-6317.	1.5	9
4	Hot carrier spatio-temporal inhomogeneities in ultrafast nanophotonics. New Journal of Physics, 2022, 24, 045001.	1.2	5
5	Enhanced generation of angle correlated photon-pairs in nonlinear metasurfaces. New Journal of Physics, 2022, 24, 035006.	1.2	8
6	Allâ€Optical Reconfiguration of Ultrafast Dichroism in Gold Metasurfaces. Advanced Optical Materials, 2022, 10, .	3.6	6
7	Ultrafast Plasmonics Beyond the Perturbative Regime: Breaking the Electronic-Optical Dynamics Correspondence. Nano Letters, 2022, 22, 2748-2754.	4.5	11
8	Geometrical Engineering of Giant Optical Dichroism in Rippled MoS₂ Nanosheets. Advanced Optical Materials, 2021, 9, 2001408.	3.6	6
9	Broadband and Tunable Light Harvesting in Nanorippled MoS₂ Ultrathin Films. ACS Applied Materials & Interfaces, 2021, 13, 13508-13516.	4.0	21
10	Disentangling the Temporal Dynamics of Nonthermal Electrons in Photoexcited Gold Nanostructures. Laser and Photonics Reviews, 2021, 15, 2100017.	4.4	10
11	Optical tuning of dielectric nanoantennas for thermo-optically reconfigurable nonlinear metasurfaces. Optics Letters, 2021, 46, 2453.	1.7	40
12	Allâ€Optical Modulation with Dielectric Nanoantennas: Multiresonant Control and Ultrafast Spatial Inhomogeneities. Small Science, 2021, 1, 2000079.	5.8	11
13	Quantitative Ultrafast Electronâ€Temperature Dynamics in Photoâ€Excited Au Nanoparticles. Small, 2021, 17, e2100050.	5.2	7
14	Ultrafast, All Optically Reconfigurable, Nonlinear Nanoantenna. ACS Nano, 2021, 15, 11150-11157.	7.3	30
15	Enhanced generation of nondegenerate photon pairs in nonlinear metasurfaces. Advanced Photonics, 2021, 3, .	6.2	62
16	All-Optically Reconfigurable Plasmonic Metagrating for Ultrafast Diffraction Management. Nano Letters, 2021, 21, 1345-1351.	4.5	19
17	Transient optical symmetry breaking for ultrafast broadband dichroism in plasmonic metasurfaces. Nature Photonics, 2020, 14, 723-727.	15.6	48
18	Evidence of Plasmon Enhanced Charge Transfer in Largeâ€Area Hybrid Auâ€"MoS₂ Metasurface. Advanced Optical Materials, 2020, 8, 2000653.	3.6	20

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19	Ultra-broadband photon harvesting in large-area few-layer MoS₂ nanostripe gratings. Nanoscale, 2020, 12, 24385-24393.	2.8	18
20	Color Routing via Cross-Polarized Detuned Plasmonic Nanoantennas in Large-Area Metasurfaces. Nano Letters, 2020, 20, 4121-4128.	4.5	14
21	Self-Organized Conductive Gratings of Au Nanostripe Dimers Enable Tunable Plasmonic Activity. Applied Sciences (Switzerland), 2020, 10, 1301.	1.3	1
22	Thermometric Calibration of the Ultrafast Relaxation Dynamics in Plasmonic Au Nanoparticles. ACS Photonics, 2020, 7, 959-966.	3.2	19
23	Coherent narrowband light source for ultrafast photoelectron spectroscopy in the 17â€“31 eV photon energy range. Structural Dynamics, 2020, 7, 014303.	0.9	24
24	Plasmonic control of drug release efficiency in agarose gel loaded with gold nanoparticle assemblies. Nanophotonics, 2020, 10, 247-257.	2.9	20
25	Tuning the transient opto-electronic properties of few-layer MoS2 nanosheets via substrate nano-patterning. EPJ Web of Conferences, 2020, 238, 07006.	0.1	0
26	Tracking Ultrafast Energy Flow in Plasmonic Nanocrystal Assemblies. , 2019, , .		0
27	Lightâ€“heat conversion dynamics in highly diversified water-dispersed hydrophobic nanocrystal assemblies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8161-8166.	3.3	27
28	Self-organized metasurfaces enabling plasmon hybridization. , 2019, , .		0
29	Plasmon hybridization engineering in self-organized anisotropic metasurfaces. Nano Research, 2018, 11, 3943-3956.	5.8	28
30	Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS₂ Sheets. ACS Photonics, 2018, 5, 3363-3371.	3.2	17
31	Tailoring the optical properties of one-dimensional (1D) photonic structures. , 2017, , .		0
32	Non-Hermitian time-dependent perturbation theory: Asymmetric transitions and transitionless interactions. Annals of Physics, 2017, 385, 744-756.	1.0	11
33	Nonlinear Anisotropic Dielectric Metasurfaces for Ultrafast Nanophotonics. ACS Photonics, 2017, 4, 2129-2136.	3.2	70
34	Quasi-Static Resonances in the Visible Spectrum from All-Dielectric Intermediate Band Semiconductor Nanocrystals. Nano Letters, 2017, 17, 7691-7695.	4.5	38
35	Ultrafast Spectroscopy of Graphene-Protected Thin Copper Films. ACS Photonics, 2016, 3, 1508-1516.	3.2	8
36	Microfluidic device for continuous single cells analysis via Raman spectroscopy enhanced by integrated plasmonic nanodimers. Optics Express, 2016, 24, A180.	1.7	38

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37	Self-organized plasmonic metasurfaces for all-optical modulation. Physical Review B, 2015, 91, .	1.1	24
38	Non-Hermitian transparency and one-way transport in low-dimensional lattices by an imaginary gauge field. Physical Review B, 2015, 92, .	1.1	115
39	Transient Optical Response of a Single Gold Nanoantenna: The Role of Plasmon Detuning. ACS Photonics, 2015, 2, 521-529.	3.2	62
40	Mixed Rabi Jaynesâ€“Cummings model of a three-level atom interacting with two quantized fields. Optics Communications, 2015, 346, 110-114.	1.0	8
41	Particle Statistics Affects Quantum Decay and Fano Interference. Physical Review Letters, 2015, 114, 090201.	2.9	56
42	Non-Hermitian shortcut to stimulated Raman adiabatic passage. Physical Review A, 2014, 89, .	1.0	67
43	Optical lattices with exceptional points in the continuum. Physical Review A, 2014, 89, .	1.0	36
44	Floquet-Hubbard bound states in the continuum. Physical Review B, 2014, 89, .	1.1	19
45	Disentangling electrons and lattice nonlinear optical response in metal-dielectric Bragg filters. Physical Review B, 2014, 89, .	1.1	17
46	Invisible defects in complex crystals. Annals of Physics, 2013, 334, 35-46.	1.0	36
47	Dynamic band collapse in photonic graphene. New Journal of Physics, 2013, 15, 013012.	1.2	72
48	Floquet bound states in the continuum. Scientific Reports, 2013, 3, 2219.	1.6	42
49	Absence of Floquet scattering in oscillating non-Hermitian potential wells. Physical Review A, 2013, 87, .	1.0	10
50	Ultrafast Optical Mapping of Nonlinear Plasmon Dynamics in Cu_{2â€“x}Se Nanoparticles. Journal of Physical Chemistry Letters, 2013, 4, 3337-3344.	2.1	47
51	Klein tunneling of two correlated bosons. European Physical Journal B, 2013, 86, 1.	0.6	7
52	Spectral and transport properties of time-periodic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric tight-binding lattices. Physical Review A, 2013, 87, .	1.0	70
53	Quantum simulation of the Riemann-HurwitzÎ¶function. Physical Review A, 2013, 87, .	1.0	4
54	Fractional Bloch oscillations in photonic lattices. Nature Communications, 2013, 4, 1555.	5.8	119

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55	Plasmonics in heavily-doped semiconductor nanocrystals. European Physical Journal B, 2013, 86, 1.	0.6	76
56	Non-Hermitian shortcut to adiabaticity. Physical Review A, 2013, 87, .	1.0	82
57	Field-induced ferromagnetism in one-dimensional tight-binding lattices. Europhysics Letters, 2013, 101, 67006.	0.7	2
58	Imaginary Kapitza pendulum. Physical Review A, 2013, 88, .	1.0	14
59	Low-energy doublons in the ac-driven two-species Hubbard model. Physical Review A, 2013, 87, .	1.0	6
60	Ultrafast interband nonlinear dynamics of surface plasmon polaritons in gold nanowires. , 2013, , .		0
61	Realization of interacting quantum field theories in driven tight-binding lattices. New Journal of Physics, 2012, 14, 053026.	1.2	6
62	Integrated fiber-coupled launcher for slow plasmon-polariton waves. Optics Express, 2012, 20, 3158.	1.7	1
63	Correlated super-Bloch oscillations. Physical Review B, 2012, 86, .	1.1	25
64	Photonic realization of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric quantum field theories. Physical Review A, 2012, 85, .	1.0	22
65	Derivation of third-order nonlinear susceptibility of thin metal films as a delayed optical response. Physical Review B, 2012, 85, .	1.1	71
66	Quantum transport in bipartite lattices via Landau-Zener tunneling. Physical Review A, 2012, 86, .	1.0	17
67	Many-particle quantum decay and trapping: The role of statistics and Fano resonances. Physical Review A, 2012, 86, .	1.0	18
68	Lasers and Coherent Light Sources. , 2012, , 641-1046.		7
69	Coherent destruction of tunneling of two interacting bosons in a tight-binding lattice. Physical Review A, 2012, 86, .	1.0	21
70	Anyons in one-dimensional lattices: a photonic realization. Optics Letters, 2012, 37, 2160.	1.7	19
71	Anyonic Bloch oscillations. Physical Review B, 2012, 85, .	1.1	15
72	Efficient suppression of radiation damping in individual plasmonic resonators: towards highâ€Q nanoâ€volume sensing. Annalen Der Physik, 2012, 524, 253-272.	0.9	3

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73	Coherent perfect absorbers for transient, periodic, or chaotic optical fields: Time-reversed lasers beyond threshold. Physical Review A, 2012, 85, .	1.0	19
74	Plasmonic metamaterial wave retarders in reflection by orthogonally oriented detuned electrical dipoles. Optics Letters, 2011, 36, 1626.	1.7	124
75	Tunneling control of strongly correlated particles on a lattice: a photonic realization. Optics Letters, 2011, 36, 4743.	1.7	19
76	Plasmon Dynamics in Colloidal Cu_{2â€“x}Se Nanocrystals. Nano Letters, 2011, 11, 4711-4717.	4.5	158
77	Goos-HÃnchen shift in complex crystals. Physical Review A, 2011, 84, .	1.0	51
78	Dynamic reflectionless defects in tight-binding lattices. Physical Review B, 2011, 84, .	1.1	5
79	Classical simulation of the Hubbard-Holstein dynamics with optical waveguide lattices. Physical Review B, 2011, 84, .	1.1	6
80	Classical realization of two-site Fermi-Hubbard systems. Physical Review B, 2011, 84, .	1.1	7
81	Metal split-cylinder resonators for plasmonic nanosensing. Journal of Optics (United Kingdom), 2011, 13, 095001.	1.0	4
82	Geometric potential for plasmon polaritons on curved surfaces. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 051002.	0.6	20
83	Femtosecond laser written optical waveguide amplifier in phospho-tellurite glass. Optics Express, 2010, 18, 20289.	1.7	70
84	Subwavelength diffraction control and self-imaging in curved plasmonic waveguide arrays. Optics Letters, 2010, 35, 673.	1.7	24
85	Graded index surface-plasmon-polariton devices for subwavelength light management. Physical Review B, 2010, 82, .	1.1	13
86	High-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>plasmonic resonators based on metal split nanocylinders. Physical Review B, 2009, 80, .	1.1	13
87	Efficient suppression of radiation damping in resonant retardation-based plasmonic structures. Physical Review B, 2009, 79, .	1.1	16
88	Experimental Observation of a Photon Bouncing Ball. Physical Review Letters, 2009, 102, 180402.	2.9	44
89	Investigation of Transients in Single-Fiber Bidirectional Closed-Loop WDM Ring Network Using High-Power Gain Clamped EDWA. Journal of Lightwave Technology, 2009, 27, 88-93.	2.7	2
90	Micromachining of photonic devices by femtosecond laser pulses. Journal of Optics, 2009, 11, 013001.	1.5	283

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91	Lasing in femtosecond laser written optical waveguides. Applied Physics A: Materials Science and Processing, 2008, 93, 17-26.	1.1	53
92	Visualization of two-photon Rabi oscillations in evanescently coupled optical waveguides. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 085402.	0.6	25
93	Theoretical analysis of gold nano-strip gap plasmon resonators. New Journal of Physics, 2008, 10, 105008.	1.2	54
94	Experimental demonstration of the optical Zeno effect by scanning tunneling optical microscopy. Optics Express, 2008, 16, 3762.	1.7	62
95	Plasmon-polariton nano-strip resonators: from visible to infra-red. Optics Express, 2008, 16, 6867.	1.7	62
96	Single-mode and high power waveguide lasers fabricated by ion-exchange. Optics Express, 2008, 16, 12334.	1.7	33
97	Active waveguides written by femtosecond laser irradiation in an erbium-doped phospho-tellurite glass. Optics Express, 2008, 16, 15198.	1.7	55
98	Adiabatic light transfer via dressed states in optical waveguide arrays. Applied Physics Letters, 2008, 92, .	1.5	78
99	Femtosecond Laser Microfabrication of an Integrated Device for Optical Release and Sensing of Bioactive Compounds. Sensors, 2008, 8, 6595-6604.	2.1	7
100	Discrete diffraction in waveguide arrays: A quantitative analysis by tunneling optical microscopy. Applied Physics Letters, 2007, 90, .	1.5	14
101	Investigation of Optical-Burst-Transmission Induced Impairment in Gain-Clamped Amplifiers. , 2007, , .		0
102	1.5 Î¼m single longitudinal mode waveguide laser fabricated by femtosecond laser writing. Optics Express, 2007, 15, 3190.	1.7	107
103	Waveguide Lasers in Er:Yb-Doped Phosphate Glass Fabricated by Femtosecond Laser Writing. , 2007, , .		1
104	Advanced waveguide lasers fabricated by femtosecond laser writing in an Er:Yb-doped phosphate glass. , 2007, , .		1
105	Coherent tunneling by adiabatic passage in an optical waveguide system. Physical Review B, 2007, 76, .	1.1	159
106	Visualization of Coherent Destruction of Tunneling in an Optical Double Well System. Physical Review Letters, 2007, 98, 263601.	2.9	161
107	Topological suppression of optical tunneling in a twisted annular fiber. Physical Review A, 2007, 76, .	1.0	37
108	Gain-Stabilized Erbium-Doped Waveguide Amplifier for Burst Transmission. IEEE Photonics Technology Letters, 2007, 19, 97-99.	1.3	7

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109	Passive mode locking by carbon nanotubes in a femtosecond laser written waveguide laser. Applied Physics Letters, 2006, 89, 231115.	1.5	91
110	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
111	Transient insensitive all-fibre gain-clamped EDFA based on highly-doped Er:Yb-fibre. Electronics Letters, 2006, 42, 594.	0.5	2
112	Compact high gain erbium-ytterbium doped waveguide amplifier fabricated by Ag-Na ion exchange. Electronics Letters, 2006, 42, 632.	0.5	39
113	Optical Amplifier for WDM Burst Transmission. , 2006, , .		2
114	Waveguide amplifiers and lasers written by femtosecond laser pulses. , 2005, 5714, 229.		0
115	Slow light in periodic superstructure Bragg gratings. Physical Review E, 2005, 72, 056605.	0.8	50
116	Optical buffering in phase-shifted fibre gratings. Electronics Letters, 2005, 41, 1075.	0.5	20
117	C-band waveguide amplifier produced by femtosecond laser writing. Optics Express, 2005, 13, 5976.	1.7	83
118	Erbium-doped waveguide amplifier for reconfigurable WDM metro networks. IEEE Photonics Technology Letters, 2005, 17, 1468-1470.	1.3	30
119	Ray and wave instabilities in twisted graded-index optical fibers. Physical Review E, 2004, 69, 056608.	0.8	7
120	Stability of astigmatic and twisted optical lensguides. Optical and Quantum Electronics, 2004, 36, 1061-1078.	1.5	3
121	Widely tunable continuous-wave diode-pumped 2-Âµm Tmâ€“Ho:KYF_4 laser. Optics Letters, 2004, 29, 715.	1.7	51
122	Optical waveguide writing with a diode-pumped femtosecond oscillator. Optics Letters, 2004, 29, 1900.	1.7	91
123	Er:Yb-doped waveguide laser fabricated by femtosecond laser pulses. Optics Letters, 2004, 29, 2626.	1.7	175
124	Twisted-mode single-frequency Erâ€“Yb waveguide laser at 1.5 Î¼m. Optical and Quantum Electronics, 2003, 35, 669-674.	1.5	3
125	Ag+â€“Na+ ion exchange from dilute melt: guidelines for planar waveguide fabrication on a commercial phosphate glass. Optical Materials, 2003, 23, 559-567.	1.7	15
126	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