

# Giuseppe Della Valle

## List of Publications by Citations

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116  
papers

3,357  
citations

35  
h-index

54  
g-index

127  
ext. papers

4,042  
ext. citations

4.4  
avg, IF

5.33  
L-index

#	Paper	IF	Citations
116	Micromachining of photonic devices by femtosecond laser pulses. <i>Journal of Optics</i> , <b>2009</b> , 11, 013001		203
115	Visualization of coherent destruction of tunneling in an optical double well system. <i>Physical Review Letters</i> , <b>2007</b> , 98, 263601	7.4	148
114	Er:Yb-doped waveguide laser fabricated by femtosecond laser pulses. <i>Optics Letters</i> , <b>2004</b> , 29, 2626-8	3	144
113	Plasmon dynamics in colloidal Cu <sub>2</sub> Se nanocrystals. <i>Nano Letters</i> , <b>2011</b> , 11, 4711-7	11.5	140
112	Coherent tunneling by adiabatic passage in an optical waveguide system. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	133
111	Plasmonic metamaterial wave retarders in reflection by orthogonally oriented detuned electrical dipoles. <i>Optics Letters</i> , <b>2011</b> , 36, 1626-8	3	107
110	Fractional Bloch oscillations in photonic lattices. <i>Nature Communications</i> , <b>2013</b> , 4, 1555	17.4	91
109	Optical waveguide writing with a diode-pumped femtosecond oscillator. <i>Optics Letters</i> , <b>2004</b> , 29, 1900-23		80
108	Passive mode locking by carbon nanotubes in a femtosecond laser written waveguide laser. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 231115	3.4	79
107	1.5 μm single longitudinal mode waveguide laser fabricated by femtosecond laser writing. <i>Optics Express</i> , <b>2007</b> , 15, 3190-4	3.3	78
106	Non-Hermitian transparency and one-way transport in low-dimensional lattices by an imaginary gauge field. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	73
105	Plasmonics in heavily-doped semiconductor nanocrystals. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	68
104	Waveguide lasers in the C-band fabricated by laser inscription with a compact femtosecond oscillator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2006</b> , 12, 277-285	3.8	68
103	Non-Hermitian shortcut to adiabaticity. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	67
102	Adiabatic light transfer via dressed states in optical waveguide arrays. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 011106	3.4	67
101	C-band waveguide amplifier produced by femtosecond laser writing. <i>Optics Express</i> , <b>2005</b> , 13, 5976-82	3.3	66
100	Spectral and transport properties of time-periodic PT-symmetric tight-binding lattices. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	63

99	Non-Hermitian shortcut to stimulated Raman adiabatic passage. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	55
98	Femtosecond laser written optical waveguide amplifier in phospho-tellurite glass. <i>Optics Express</i> , <b>2010</b> , 18, 20289-97	3.3	54
97	Derivation of third-order nonlinear susceptibility of thin metal films as a delayed optical response. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	53
96	Dynamic band collapse in photonic graphene. <i>New Journal of Physics</i> , <b>2013</b> , 15, 013012	2.9	50
95	Experimental demonstration of the optical Zeno effect by scanning tunneling optical microscopy. <i>Optics Express</i> , <b>2008</b> , 16, 3762-7	3.3	50
94	Plasmon-polariton nano-strip resonators: from visible to infra-red. <i>Optics Express</i> , <b>2008</b> , 16, 6867-76	3.3	50
93	Theoretical analysis of gold nano-strip gap plasmon resonators. <i>New Journal of Physics</i> , <b>2008</b> , 10, 105008	2.9	48
92	Goos-Hänchen shift in complex crystals. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	47
91	Particle statistics affects quantum decay and Fano interference. <i>Physical Review Letters</i> , <b>2015</b> , 114, 090201	2.4	46
90	Active waveguides written by femtosecond laser irradiation in an erbium-doped phospho-tellurite glass. <i>Optics Express</i> , <b>2008</b> , 16, 15198-205	3.3	44
89	Lasing in femtosecond laser written optical waveguides. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 93, 17-26	2.6	43
88	Widely tunable continuous-wave diode-pumped 2-microm Tm-Ho:KYF <sub>4</sub> laser. <i>Optics Letters</i> , <b>2004</b> , 29, 715-7	3	43
87	Transient Optical Response of a Single Gold Nanoantenna: The Role of Plasmon Detuning. <i>ACS Photonics</i> , <b>2015</b> , 2, 521-529	6.3	42
86	Nonlinear Anisotropic Dielectric Metasurfaces for Ultrafast Nanophotonics. <i>ACS Photonics</i> , <b>2017</b> , 4, 212962	136	41
85	Ultrafast Optical Mapping of Nonlinear Plasmon Dynamics in Cu <sub>2</sub> Se Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3337-3344	6.4	39
84	Slow light in periodic superstructure Bragg gratings. <i>Physical Review E</i> , <b>2005</b> , 72, 056605	2.4	39
83	Experimental observation of a photon bouncing ball. <i>Physical Review Letters</i> , <b>2009</b> , 102, 180402	7.4	38
82	Floquet bound states in the continuum. <i>Scientific Reports</i> , <b>2013</b> , 3, 2219	4.9	36

81	Microfluidic device for continuous single cells analysis via Raman spectroscopy enhanced by integrated plasmonic nanodimers. <i>Optics Express</i> , <b>2016</b> , 24, A180-90	3.3	33
80	Invisible defects in complex crystals. <i>Annals of Physics</i> , <b>2013</b> , 334, 35-46	2.5	29
79	Optical lattices with exceptional points in the continuum. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	29
78	Compact high gain erbium-ytterbium doped waveguide amplifier fabricated by Ag-Na ion exchange. <i>Electronics Letters</i> , <b>2006</b> , 42, 632	1.1	29
77	Topological suppression of optical tunneling in a twisted annular fiber. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	28
76	Single-mode and high power waveguide lasers fabricated by ion-exchange. <i>Optics Express</i> , <b>2008</b> , 16, 12334-41	3.4	27
75	Quasi-Static Resonances in the Visible Spectrum from All-Dielectric Intermediate Band Semiconductor Nanocrystals. <i>Nano Letters</i> , <b>2017</b> , 17, 7691-7695	11.5	23
74	Correlated super-Bloch oscillations. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	22
73	Visualization of two-photon Rabi oscillations in evanescently coupled optical waveguides. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2008</b> , 41, 085402	1.3	22
72	Photonic realization of PT-symmetric quantum field theories. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	21
71	Transient optical symmetry breaking for ultrafast broadband dichroism in plasmonic metasurfaces. <i>Nature Photonics</i> , <b>2020</b> , 14, 723-727	33.9	21
70	Self-organized plasmonic metasurfaces for all-optical modulation. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	20
69	Erbium-doped waveguide amplifier for reconfigurable WDM metro networks. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1468-1470	2.2	20
68	Plasmon hybridization engineering in self-organized anisotropic metasurfaces. <i>Nano Research</i> , <b>2018</b> , 11, 3943-3956	10	19
67	Coherent perfect absorbers for transient, periodic, or chaotic optical fields: Time-reversed lasers beyond threshold. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	19
66	Subwavelength diffraction control and self-imaging in curved plasmonic waveguide arrays. <i>Optics Letters</i> , <b>2010</b> , 35, 673-5	3	19
65	Many-particle quantum decay and trapping: The role of statistics and Fano resonances. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	18
64	Coherent destruction of tunneling of two interacting bosons in a tight-binding lattice. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	18

63	Tunneling control of strongly correlated particles on a lattice: a photonic realization. <i>Optics Letters</i> , <b>2011</b> , 36, 4743-5	3	18
62	Optical buffering in phase-shifted fibre gratings. <i>Electronics Letters</i> , <b>2005</b> , 41, 1075	1.1	18
61	Geometric potential for plasmon polaritons on curved surfaces. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2010</b> , 43, 051002	1.3	17
60	Floquet-Hubbard bound states in the continuum. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	15
59	Quantum transport in bipartite lattices via Landau-Zener tunneling. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	15
58	Efficient suppression of radiation damping in resonant retardation-based plasmonic structures. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	15
57	Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS <sub>2</sub> Sheets. <i>ACS Photonics</i> , <b>2018</b> , 5, 3363-3371	3.3	14
56	Discrete diffraction in waveguide arrays: A quantitative analysis by tunneling optical microscopy. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 261118	3.4	14
55	Optical tuning of dielectric nanoantennas for thermo-optically reconfigurable nonlinear metasurfaces. <i>Optics Letters</i> , <b>2021</b> , 46, 2453-2456	3	14
54	Light-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> , <b>2019</b> , 116, 8161-8166	11.5	13
53	Anyons in one-dimensional lattices: a photonic realization. <i>Optics Letters</i> , <b>2012</b> , 37, 2160-2	3	13
52	Anyonic Bloch oscillations. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	13
51	High-Q plasmonic resonators based on metal split nanocylinders. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	13
50	Thermometric Calibration of the Ultrafast Relaxation Dynamics in Plasmonic Au Nanoparticles. <i>ACS Photonics</i> , <b>2020</b> , 7, 959-966	6.3	12
49	Coherent narrowband light source for ultrafast photoelectron spectroscopy in the 17-31 eV photon energy range. <i>Structural Dynamics</i> , <b>2020</b> , 7, 014303	3.2	12
48	Disentangling electrons and lattice nonlinear optical response in metal-dielectric Bragg filters. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	12
47	Graded index surface-plasmon-polariton devices for subwavelength light management. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	12
46	Ag <sup>+</sup> /Na <sup>+</sup> ion exchange from dilute melt: guidelines for planar waveguide fabrication on a commercial phosphate glass. <i>Optical Materials</i> , <b>2003</b> , 23, 559-567	3.3	12

45	Imaginary Kapitza pendulum. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	11
44	Enhanced generation of nondegenerate photon pairs in nonlinear metasurfaces. <i>Advanced Photonics</i> , <b>2021</b> , 3,	8.1	11
43	Color Routing via Cross-Polarized Detuned Plasmonic Nanoantennas in Large-Area Metasurfaces. <i>Nano Letters</i> , <b>2020</b> , 20, 4121-4128	11.5	10
42	Non-Hermitian time-dependent perturbation theory: Asymmetric transitions and transitionless interactions. <i>Annals of Physics</i> , <b>2017</b> , 385, 744-756	2.5	9
41	Evidence of Plasmon Enhanced Charge Transfer in Large-Area Hybrid Au/MoS <sub>2</sub> Metasurface. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000653	8.1	8
40	Ultrafast, All-Optically Reconfigurable, Nonlinear Nanoantenna. <i>ACS Nano</i> , <b>2021</b> ,	16.7	8
39	Absence of Floquet scattering in oscillating non-Hermitian potential wells. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	7
38	Classical realization of two-site Fermi-Hubbard systems. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	7
37	Femtosecond Laser Microfabrication of an Integrated Device for Optical Release and Sensing of Bioactive Compounds. <i>Sensors</i> , <b>2008</b> , 8, 6595-6604	3.8	7
36	Ray and wave instabilities in twisted graded-index optical fibers. <i>Physical Review E</i> , <b>2004</b> , 69, 056608	2.4	7
35	Ultrafast Spectroscopy of Graphene-Protected Thin Copper Films. <i>ACS Photonics</i> , <b>2016</b> , 3, 1508-1516	6.3	7
34	All-Optically Reconfigurable Plasmonic Metagrating for Ultrafast Diffraction Management. <i>Nano Letters</i> , <b>2021</b> , 21, 1345-1351	11.5	7
33	Mixed Rabi Jaynes-Cummings model of a three-level atom interacting with two quantized fields. <i>Optics Communications</i> , <b>2015</b> , 346, 110-114	2	6
32	Classical simulation of the Hubbard-Holstein dynamics with optical waveguide lattices. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	6
31	Broadband and Tunable Light Harvesting in Nanorippled MoS Ultrathin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13508-13516	9.5	6
30	Ultra-broadband photon harvesting in large-area few-layer MoS nanostripe gratings. <i>Nanoscale</i> , <b>2020</b> , 12, 24385-24393	7.7	5
29	Dynamic reflectionless defects in tight-binding lattices. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	5
28	Realization of interacting quantum field theories in driven tight-binding lattices. <i>New Journal of Physics</i> , <b>2012</b> , 14, 053026	2.9	5

27	Generation of micro- and THz-waves at 1.5 [micro sign]m by dual-frequency Er:Yb laser. <i>Electronics Letters</i> , <b>2001</b> , 37, 1463	1.1	5
26	Plasmonic control of drug release efficiency in agarose gel loaded with gold nanoparticle assemblies. <i>Nanophotonics</i> , <b>2020</b> , 10, 247-257	6.3	5
25	Klein tunneling of two correlated bosons. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	4
24	Quantum simulation of the Riemann-Hurwitz $\zeta$ function. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	4
23	Metal split-cylinder resonators for plasmonic nanosensing. <i>Journal of Optics (United Kingdom)</i> , <b>2011</b> , 13, 095001	1.7	4
22	Lasers and Coherent Light Sources <b>2012</b> , 641-1046		3
21	Efficient suppression of radiation damping in individual plasmonic resonators: towards high-Q nano-volume sensing. <i>Annalen Der Physik</i> , <b>2012</b> , 524, 253-272	2.6	3
20	Low-energy doublons in the ac-driven two-species Hubbard model. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	3
19	Gain-Stabilized Erbium-Doped Waveguide Amplifier for Burst Transmission. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 97-99	2.2	3
18	Twisted-mode single-frequency Er:Yb waveguide laser at 1.5 $\mu$ m. <i>Optical and Quantum Electronics</i> , <b>2003</b> , 35, 669-674	2.4	3
17	All-Optical Modulation with Dielectric Nanoantennas: Multiresonant Control and Ultrafast Spatial Inhomogeneities. <i>Small Science</i> , <b>2021</b> , 1, 2000079		3
16	Quantitative Ultrafast Electron-Temperature Dynamics in Photo-Excited Au Nanoparticles. <i>Small</i> , <b>2021</b> , 17, e2100050	11	3
15	Field-induced ferromagnetism in one-dimensional tight-binding lattices. <i>Europhysics Letters</i> , <b>2013</b> , 101, 67006	1.6	2
14	Stability of astigmatic and twisted optical lensguides. <i>Optical and Quantum Electronics</i> , <b>2004</b> , 36, 1061-1078		2
13	On the limits of quasi-static theory in plasmonic nanostructures. <i>Journal of Optics (United Kingdom)</i> ,	1.7	2
12	Disentangling the Temporal Dynamics of Nonthermal Electrons in Photoexcited Gold Nanostructures. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2100017	8.3	2
11	Geometrical Engineering of Giant Optical Dichroism in Rippled MoS <sub>2</sub> Nanosheets. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001408	8.1	2
10	Enhanced generation of angle correlated photon-pairs in nonlinear metasurfaces. <i>New Journal of Physics</i> , <b>2022</b> , 24, 035006	2.9	2

9	Active Photonic Devices. <i>Topics in Applied Physics</i> , <b>2012</b> , 265-292	0.5	1
8	Integrated fiber-coupled launcher for slow plasmon-polariton waves. <i>Optics Express</i> , <b>2012</b> , 20, 3158-65	3.3	1
7	Investigation of Transients in Single-Fiber Bidirectional Closed-Loop WDM Ring Network Using High-Power Gain Clamped EDWA. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 88-93	4	1
6	Transient insensitive all-fibre gain-clamped EDFA based on highly-doped Er:Yb-fibre. <i>Electronics Letters</i> , <b>2006</b> , 42, 594	1.1	1
5	<b>2007</b> ,		1
4	Chemically-Controlled Ultrafast Photothermal Response in Plasmonic Nanostructured Assemblies.. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 6308-6317	3.8	o
3	All-Optical Reconfiguration of Ultrafast Dichroism in Gold Metasurfaces. <i>Advanced Optical Materials</i> , <b>2018</b> , 10, 180549		o
2	Self-Organized Conductive Gratings of Au Nanostripe Dimers Enable Tunable Plasmonic Activity. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 1301	2.6	
1	Tuning the transient opto-electronic properties of few-layer MoS2 nanosheets via substrate nano-patterning. <i>EPJ Web of Conferences</i> , <b>2020</b> , 238, 07006	0.3	