# Giuseppe Della Valle

## List of Publications by Year in Descending Order



| | | | |
|---|---|---|---|
| 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 | Chemically-Controlled Ultrafast Photothermal Response in Plasmonic Nanostructured Assemblies.. *Journal of Physical Chemistry C*, **2022**, 126, 6308-6317 | 3.8 | 0 |
| 115 | Enhanced generation of angle correlated photon-pairs in nonlinear metasurfaces. *New Journal of Physics*, **2022**, 24, 035006 | 2.9 | 2 |
| 114 | Broadband and Tunable Light Harvesting in Nanorippled MoS Ultrathin Films. *ACS Applied Materials & Interfaces*, **2021**, 13, 13508-13516 | 9.5 | 6 |
| 113 | Disentangling the Temporal Dynamics of Nonthermal Electrons in Photoexcited Gold Nanostructures. *Laser and Photonics Reviews*, **2021**, 15, 2100017 | 8.3 | 2 |
| 112 | Optical tuning of dielectric nanoantennas for thermo-optically reconfigurable nonlinear metasurfaces. *Optics Letters*, **2021**, 46, 2453-2456 | 3 | 14 |
| 111 | All-Optical Modulation with Dielectric Nanoantennas: Multiresonant Control and Ultrafast Spatial Inhomogeneities. *Small Science*, **2021**, 1, 2000079 | | 3 |
| 110 | Quantitative Ultrafast Electron-Temperature Dynamics in Photo-Excited Au Nanoparticles. *Small*, **2021**, 17, e2100050 | 11 | 3 |
| 109 | Ultrafast, All Optically Reconfigurable, Nonlinear Nanoantenna. *ACS Nano*, **2021**, | 16.7 | 8 |
| 108 | Geometrical Engineering of Giant Optical Dichroism in Rippled MoS2 Nanosheets. *Advanced Optical Materials*, **2021**, 9, 2001408 | 8.1 | 2 |
| 107 | Enhanced generation of nondegenerate photon pairs in nonlinear metasurfaces. *Advanced Photonics*, **2021**, 3, | 8.1 | 11 |
| 106 | All-Optically Reconfigurable Plasmonic Metagrating for Ultrafast Diffraction Management. *Nano Letters*, **2021**, 21, 1345-1351 | 11.5 | 7 |
| 105 | Ultra-broadband photon harvesting in large-area few-layer MoS nanostripe gratings. *Nanoscale*, **2020**, 12, 24385-24393 | 7.7 | 5 |
| 104 | Color Routing via Cross-Polarized Detuned Plasmonic Nanoantennas in Large-Area Metasurfaces. *Nano Letters*, **2020**, 20, 4121-4128 | 11.5 | 10 |
| 103 | Self-Organized Conductive Gratings of Au Nanostripe Dimers Enable Tunable Plasmonic Activity. *Applied Sciences (Switzerland)*, **2020**, 10, 1301 | 2.6 | |
| 102 | Thermometric Calibration of the Ultrafast Relaxation Dynamics in Plasmonic Au Nanoparticles. *ACS Photonics*, **2020**, 7, 959-966 | 6.3 | 12 |
| 101 | Coherent narrowband light source for ultrafast photoelectron spectroscopy in the 17-31 eV photon energy range. *Structural Dynamics*, **2020**, 7, 014303 | 3.2 | 12 |
| 100 | Plasmonic control of drug release efficiency in agarose gel loaded with gold nanoparticle assemblies. *Nanophotonics*, **2020**, 10, 247-257 | 6.3 | 5 |

| | | | |
|---|---|---|---|
| 99 | Tuning the transient opto-electronic properties of few-layer MoS2 nanosheets via substrate nano-patterning. *EPJ Web of Conferences*, **2020**, 238, 07006 | 0.3 | |
| 98 | Transient optical symmetry breaking for ultrafast broadband dichroism in plasmonic metasurfaces. *Nature Photonics*, **2020**, 14, 723-727 | 33.9 | 21 |
| 97 | Evidence of Plasmon Enhanced Charge Transfer in Large-Area Hybrid Au/MoS2 Metasurface. *Advanced Optical Materials*, **2020**, 8, 2000653 | 8.1 | 8 |
| 96 | Light-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 | 11.5 | 13 |
| 95 | Plasmon hybridization engineering in self-organized anisotropic metasurfaces. *Nano Research*, **2018**, 11, 3943-3956 | 10 | 19 |
| 94 | Ultrafast Anisotropic Exciton Dynamics in Nanopatterned MoS2 Sheets. *ACS Photonics*, **2018**, 5, 3363-3371 | 6.3 | 14 |
| 93 | Non-Hermitian time-dependent perturbation theory: Asymmetric transitions and transitionless interactions. *Annals of Physics*, **2017**, 385, 744-756 | 2.5 | 9 |
| 92 | Nonlinear Anisotropic Dielectric Metasurfaces for Ultrafast Nanophotonics. *ACS Photonics*, **2017**, 4, 2129-2136 | 6.3 | 41 |
| 91 | Quasi-Static Resonances in the Visible Spectrum from All-Dielectric Intermediate Band Semiconductor Nanocrystals. *Nano Letters*, **2017**, 17, 7691-7695 | 11.5 | 23 |
| 90 | Ultrafast Spectroscopy of Graphene-Protected Thin Copper Films. *ACS Photonics*, **2016**, 3, 1508-1516 | 6.3 | 7 |
| 89 | Microfluidic device for continuous single cells analysis via Raman spectroscopy enhanced by integrated plasmonic nanodimers. *Optics Express*, **2016**, 24, A180-90 | 3.3 | 33 |
| 88 | Transient Optical Response of a Single Gold Nanoantenna: The Role of Plasmon Detuning. *ACS Photonics*, **2015**, 2, 521-529 | 6.3 | 42 |
| 87 | Mixed Rabi Jaynes–Cummings model of a three-level atom interacting with two quantized fields. *Optics Communications*, **2015**, 346, 110-114 | 2 | 6 |
| 86 | Particle statistics affects quantum decay and Fano interference. *Physical Review Letters*, **2015**, 114, 090201 | 7.4 | 46 |
| 85 | Self-organized plasmonic metasurfaces for all-optical modulation. *Physical Review B*, **2015**, 91, | 3.3 | 20 |
| 84 | Non-Hermitian transparency and one-way transport in low-dimensional lattices by an imaginary gauge field. *Physical Review B*, **2015**, 92, | 3.3 | 73 |
| 83 | Floquet-Hubbard bound states in the continuum. *Physical Review B*, **2014**, 89, | 3.3 | 15 |
| 82 | Disentangling electrons and lattice nonlinear optical response in metal-dielectric Bragg filters. *Physical Review B*, **2014**, 89, | 3.3 | 12 |

| | | | |
|---|---|---|---|
| 81 | Non-Hermitian shortcut to stimulated Raman adiabatic passage. *Physical Review A*, **2014**, 89, | 2.6 | 55 |
| 80 | Optical lattices with exceptional points in the continuum. *Physical Review A*, **2014**, 89, | 2.6 | 29 |
| 79 | Invisible defects in complex crystals. *Annals of Physics*, **2013**, 334, 35-46 | 2.5 | 29 |
| 78 | Dynamic band collapse in photonic graphene. *New Journal of Physics*, **2013**, 15, 013012 | 2.9 | 50 |
| 77 | Floquet bound states in the continuum. *Scientific Reports*, **2013**, 3, 2219 | 4.9 | 36 |
| 76 | Absence of Floquet scattering in oscillating non-Hermitian potential wells. *Physical Review A*, **2013**, 87, | 2.6 | 7 |
| 75 | Ultrafast Optical Mapping of Nonlinear Plasmon Dynamics in Cu2Se Nanoparticles. *Journal of Physical Chemistry Letters*, **2013**, 4, 3337-3344 | 6.4 | 39 |
| 74 | Klein tunneling of two correlated bosons. *European Physical Journal B*, **2013**, 86, 1 | 1.2 | 4 |
| 73 | Spectral and transport properties of time-periodic PT-symmetric tight-binding lattices. *Physical Review A*, **2013**, 87, | 2.6 | 63 |
| 72 | Quantum simulation of the Riemann-Hurwitz Function. *Physical Review A*, **2013**, 87, | 2.6 | 4 |
| 71 | Fractional Bloch oscillations in photonic lattices. *Nature Communications*, **2013**, 4, 1555 | 17.4 | 91 |
| 70 | Plasmonics in heavily-doped semiconductor nanocrystals. *European Physical Journal B*, **2013**, 86, 1 | 1.2 | 68 |
| 69 | Non-Hermitian shortcut to adiabaticity. *Physical Review A*, **2013**, 87, | 2.6 | 67 |
| 68 | Field-induced ferromagnetism in one-dimensional tight-binding lattices. *Europhysics Letters*, **2013**, 101, 67006 | 1.6 | 2 |
| 67 | Imaginary Kapitza pendulum. *Physical Review A*, **2013**, 88, | 2.6 | 11 |
| 66 | Low-energy doublons in the ac-driven two-species Hubbard model. *Physical Review A*, **2013**, 87, | 2.6 | 3 |
| 65 | Quantum transport in bipartite lattices via Landau-Zener tunneling. *Physical Review A*, **2012**, 86, | 2.6 | 15 |
| 64 | Active Photonic Devices. *Topics in Applied Physics*, **2012**, 265-292 | 0.5 | 1 |

| | | | |
|---|---|---|---|
| 63 | Many-particle quantum decay and trapping: The role of statistics and Fano resonances. *Physical Review A*, **2012**, 86, | 2.6 | 18 |
| 62 | Lasers and Coherent Light Sources **2012**, 641-1046 | | 3 |
| 61 | Coherent destruction of tunneling of two interacting bosons in a tight-binding lattice. *Physical Review A*, **2012**, 86, | 2.6 | 18 |
| 60 | Anyons in one-dimensional lattices: a photonic realization. *Optics Letters*, **2012**, 37, 2160-2 | 3 | 13 |
| 59 | Anyonic Bloch oscillations. *Physical Review B*, **2012**, 85, | 3.3 | 13 |
| 58 | Efficient suppression of radiation damping in individual plasmonic resonators: towards high-Q nano-volume sensing. *Annalen Der Physik*, **2012**, 524, 253-272 | 2.6 | 3 |
| 57 | Coherent perfect absorbers for transient, periodic, or chaotic optical fields: Time-reversed lasers beyond threshold. *Physical Review A*, **2012**, 85, | 2.6 | 19 |
| 56 | Realization of interacting quantum field theories in driven tight-binding lattices. *New Journal of Physics*, **2012**, 14, 053026 | 2.9 | 5 |
| 55 | Integrated fiber-coupled launcher for slow plasmon-polariton waves. *Optics Express*, **2012**, 20, 3158-65 | 3.3 | 1 |
| 54 | Correlated super-Bloch oscillations. *Physical Review B*, **2012**, 86, | 3.3 | 22 |
| 53 | Photonic realization of PT-symmetric quantum field theories. *Physical Review A*, **2012**, 85, | 2.6 | 21 |
| 52 | Derivation of third-order nonlinear susceptibility of thin metal films as a delayed optical response. *Physical Review B*, **2012**, 85, | 3.3 | 53 |
| 51 | Plasmonic metamaterial wave retarders in reflection by orthogonally oriented detuned electrical dipoles. *Optics Letters*, **2011**, 36, 1626-8 | 3 | 107 |
| 50 | Tunneling control of strongly correlated particles on a lattice: a photonic realization. *Optics Letters*, **2011**, 36, 4743-5 | 3 | 18 |
| 49 | Plasmon dynamics in colloidal Cu□kSe nanocrystals. *Nano Letters*, **2011**, 11, 4711-7 | 11.5 | 140 |
| 48 | Goos-H□chen shift in complex crystals. *Physical Review A*, **2011**, 84, | 2.6 | 47 |
| 47 | Dynamic reflectionless defects in tight-binding lattices. *Physical Review B*, **2011**, 84, | 3.3 | 5 |
| 46 | Classical simulation of the Hubbard-Holstein dynamics with optical waveguide lattices. *Physical Review B*, **2011**, 84, | 3.3 | 6 |

| | | | |
|---|---|---|---|
| 45 | Classical realization of two-site Fermi-Hubbard systems. *Physical Review B*, **2011**, 84, | 3.3 | 7 |
| 44 | Metal split-cylinder resonators for plasmonic nanosensing. *Journal of Optics (United Kingdom)*, **2011**, 13, 095001 | 1.7 | 4 |
| 43 | Femtosecond laser written optical waveguide amplifier in phospho-tellurite glass. *Optics Express*, **2010**, 18, 20289-97 | 3.3 | 54 |
| 42 | Subwavelength diffraction control and self-imaging in curved plasmonic waveguide arrays. *Optics Letters*, **2010**, 35, 673-5 | 3 | 19 |
| 41 | Graded index surface-plasmon-polariton devices for subwavelength light management. *Physical Review B*, **2010**, 82, | 3.3 | 12 |
| 40 | Geometric potential for plasmon polaritons on curved surfaces. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2010**, 43, 051002 | 1.3 | 17 |
| 39 | High-Q plasmonic resonators based on metal split nanocylinders. *Physical Review B*, **2009**, 80, | 3.3 | 13 |
| 38 | Efficient suppression of radiation damping in resonant retardation-based plasmonic structures. *Physical Review B*, **2009**, 79, | 3.3 | 15 |
| 37 | Experimental observation of a photon bouncing ball. *Physical Review Letters*, **2009**, 102, 180402 | 7.4 | 38 |
| 36 | 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 | 4 | 1 |
| 35 | Micromachining of photonic devices by femtosecond laser pulses. *Journal of Optics*, **2009**, 11, 013001 | | 203 |
| 34 | Visualization of two-photon Rabi oscillations in evanescently coupled optical waveguides. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2008**, 41, 085402 | 1.3 | 22 |
| 33 | Theoretical analysis of gold nano-strip gap plasmon resonators. *New Journal of Physics*, **2008**, 10, 105008 | 2.9 | 48 |
| 32 | Experimental demonstration of the optical Zeno effect by scanning tunneling optical microscopy. *Optics Express*, **2008**, 16, 3762-7 | 3.3 | 50 |
| 31 | Plasmon-polariton nano-strip resonators: from visible to infra-red. *Optics Express*, **2008**, 16, 6867-76 | 3.3 | 50 |
| 30 | Single-mode and high power waveguide lasers fabricated by ion-exchange. *Optics Express*, **2008**, 16, 12334-41 | 3.3 | 27 |
| 29 | Active waveguides written by femtosecond laser irradiation in an erbium-doped phospho-tellurite glass. *Optics Express*, **2008**, 16, 15198-205 | 3.3 | 44 |
| 28 | Adiabatic light transfer via dressed states in optical waveguide arrays. *Applied Physics Letters*, **2008**, 92, 011106 | 3.4 | 67 |

| | | | |
|---|---|---|---|
| 27 | Femtosecond Laser Microfabrication of an Integrated Device for Optical Release and Sensing of Bioactive Compounds. *Sensors*, **2008**, 8, 6595-6604 | 3.8 | 7 |
| 26 | Lasing in femtosecond laser written optical waveguides. *Applied Physics A: Materials Science and Processing*, **2008**, 93, 17-26 | 2.6 | 43 |
| 25 | Coherent tunneling by adiabatic passage in an optical waveguide system. *Physical Review B*, **2007**, 76, | 3.3 | 133 |
| 24 | Visualization of coherent destruction of tunneling in an optical double well system. *Physical Review Letters*, **2007**, 98, 263601 | 7.4 | 148 |
| 23 | Topological suppression of optical tunneling in a twisted annular fiber. *Physical Review A*, **2007**, 76, | 2.6 | 28 |
| 22 | Gain-Stabilized Erbium-Doped Waveguide Amplifier for Burst Transmission. *IEEE Photonics Technology Letters*, **2007**, 19, 97-99 | 2.2 | 3 |
| 21 | Discrete diffraction in waveguide arrays: A quantitative analysis by tunneling optical microscopy. *Applied Physics Letters*, **2007**, 90, 261118 | 3.4 | 14 |
| 20 | 1.5 mum single longitudinal mode waveguide laser fabricated by femtosecond laser writing. *Optics Express*, **2007**, 15, 3190-4 | 3.3 | 78 |
| 19 | **2007**, | | 1 |
| 18 | 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 | 3.8 | 68 |
| 17 | Transient insensitive all-fibre gain-clamped EDFA based on highly-doped Er:Yb-fibre. *Electronics Letters*, **2006**, 42, 594 | 1.1 | 1 |
| 16 | Compact high gain erbium-ytterbium doped waveguide amplifier fabricated by Ag-Na ion exchange. *Electronics Letters*, **2006**, 42, 632 | 1.1 | 29 |
| 15 | Passive mode locking by carbon nanotubes in a femtosecond laser written waveguide laser. *Applied Physics Letters*, **2006**, 89, 231115 | 3.4 | 79 |
| 14 | Optical buffering in phase-shifted fibre gratings. *Electronics Letters*, **2005**, 41, 1075 | 1.1 | 18 |
| 13 | C-band waveguide amplifier produced by femtosecond laser writing. *Optics Express*, **2005**, 13, 5976-82 | 3.3 | 66 |
| 12 | Erbium-doped waveguide amplifier for reconfigurable WDM metro networks. *IEEE Photonics Technology Letters*, **2005**, 17, 1468-1470 | 2.2 | 20 |
| 11 | Slow light in periodic superstructure Bragg gratings. *Physical Review E*, **2005**, 72, 056605 | 2.4 | 39 |
| 10 | Ray and wave instabilities in twisted graded-index optical fibers. *Physical Review E*, **2004**, 69, 056608 | 2.4 | 7 |

| | | | |
|---|---|---|---|
| 9 | Stability of astigmatic and twisted optical lensguides. *Optical and Quantum Electronics*, **2004**, 36, 1061-1078 | 2.4 | 2 |
| 8 | Widely tunable continuous-wave diode-pumped 2-microm Tm-Ho:KYF4 laser. *Optics Letters*, **2004**, 29, 715-7 | 3 | 43 |
| 7 | Optical waveguide writing with a diode-pumped femtosecond oscillator. *Optics Letters*, **2004**, 29, 1900-2 | 3 | 80 |
| 6 | Er:Yb-doped waveguide laser fabricated by femtosecond laser pulses. *Optics Letters*, **2004**, 29, 2626-8 | 3 | 144 |
| 5 | Twisted-mode single-frequency Er□Yb waveguide laser at 1.5 □m. *Optical and Quantum Electronics*, **2003**, 35, 669-674 | 2.4 | 3 |
| 4 | Ag+□Na+ ion exchange from dilute melt: guidelines for planar waveguide fabrication on a commercial phosphate glass. *Optical Materials*, **2003**, 23, 559-567 | 3.3 | 12 |
| 3 | Generation of micro- and THz-waves at 1.5 [micro sign]m by dual-frequency Er:Yb laser. *Electronics Letters*, **2001**, 37, 1463 | 1.1 | 5 |
| 2 | On the limits of quasi-static theory in plasmonic nanostructures. *Journal of Optics (United Kingdom)*, | 1.7 | 2 |
| 1 | All-Optical Reconfiguration of Ultrafast Dichroism in Gold Metasurfaces. *Advanced Optical Materials*, | 8.1 | 0 |