Angelo Monguzzi

List of Publications by Year
in descending order

80 papers	3,832 citations	126907 33 h-index	123424 61 g-index
83 all docs	83 docs citations	83 times ranked	3134 citing authors

#	Article	IF	Citations
1	Photon Upconversion Based on Sensitized Triplet-Triplet Annihilation (sTTA) in Solids. , 2022, , 49-70.		0
2	Laboratory Simulation of Space Weathering on Silicate Surfaces in the Water Environment. ACS Earth and Space Chemistry, 2022, 6, 197-206.	2.7	2
3	Bypassing the statistical limit of singlet generation in sensitized upconversion using fluorinated conjugated systems. Photochemical and Photobiological Sciences, 2022, 21, 913-921.	2.9	7
4	Highly luminescent scintillating hetero-ligand MOF nanocrystals with engineered Stokes shift for photonic applications. Nature Communications, 2022, 13, .	12.8	38
5	Nanostructured Polymers Enable Stable and Efficient Lowâ€Power Photon Upconversion. Advanced Functional Materials, 2021, 31, 2004495.	14.9	31
6	Developing solid-state photon upconverters based on sensitized tripletâ€"triplet annihilation. Journal of Applied Physics, 2021, 129, .	2.5	15
7	Composite fast scintillators based on high-Z fluorescent metalâ€"organic framework nanocrystals. Nature Photonics, 2021, 15, 393-400.	31.4	93
8	Functionalized Scintillating Nanotubes for Simultaneous Radio- and Photodynamic Therapy of Cancer. ACS Applied Materials & Interfaces, 2021, 13, 12997-13008.	8.0	13
9	Treatment with ROS detoxifying gold quantum clusters alleviates the functional decline in a mouse model of Friedreich ataxia. Science Translational Medicine, 2021, 13, .	12.4	7
10	Block Copolymer Stabilized Liquid Nanodroplets Facilitate Efficient Triplet Fusion-Based Photon Upconversion in Solid Polymer Matrices. ACS Applied Materials & Interfaces, 2021, 13, 43314-43322.	8.0	10
11	Highly efficient photon upconversion based on tripletâ€"triplet annihilation from bichromophoric annihilators. Journal of Materials Chemistry C, 2021, 9, 14201-14208.	5.5	26
12	The Sensitization of Scintillation in Polymeric Composites Based on Fluorescent Nanocomplexes. Nanomaterials, 2021, 11, 3387.	4.1	4
13	Spectral converters for photovoltaics â€" Whatâ€™s ahead. Materials Today, 2020, 33, 105-121.	14.2	83
14	Chemically Sustainable Large Stokes Shift Derivatives for High-Performance Large-Area Transparent Luminescent Solar Concentrators. Joule, 2020, 4, 1988-2003.	24.0	32
15	Photon upconversion in multicomponent systems: Role of back energy transfer. Journal of Chemical Physics, 2020, 153, 114302.	3.0	25
16	High Photon Upconversion Efficiency with Hybrid Triplet Sensitizers by Ultrafast Holeâ€Routing in Electronicâ€Doped Nanocrystals. Advanced Materials, 2020, 32, e2002953.	21.0	37
17	Engineering Porous Emitting Framework Nanoparticles with Integrated Sensitizers for Lowâ€Power Photon Upconversion by Triplet Fusion. Advanced Materials, 2019, 31, e1903309.	21.0	46
18	Pre-crystallization heat treatment and infrared luminescence enhancement in Ni2+-doped transparent glass-ceramics. Journal of Non-Crystalline Solids, 2019, 515, 42-49.	3.1	15

#	Article	IF	Citations
19	Tripletâ€“triplet annihilation based photon up-conversion in hybrid moleculeâ€“semiconductor nanocrystal systems. Physical Chemistry Chemical Physics, 2019, 21, 12353-12359.	2.8	27
20	Quasi-thresholdless Photon Upconversion in Metalâ€“Organic Framework Nanocrystals. Nano Letters, 2019, 19, 2169-2177.	9.1	43
21	Bottomâ€up Synthesis and Selfâ€Assembly of Copper Clusters into Permanent Excimer Supramolecular Nanostructures. Angewandte Chemie - International Edition, 2018, 57, 7051-7055.	13.8	17
22	Demonstration of cellular imaging by using luminescent and anti-cytotoxic europium-doped hafnia nanocrystals. Nanoscale, 2018, 10, 7933-7940.	5.6	24
23	Cascade sensitization of tripletâ€“triplet annihilation based photon upconversion at sub-solar irradiance. Physical Chemistry Chemical Physics, 2018, 20, 9745-9750.	2.8	17
24	Selfâ€Assembled pHâ€Sensitive Fluoromagnetic Nanotubes as Archetype System for Multimodal Imaging of Brain Cancer. Advanced Functional Materials, 2018, 28, 1707582.	14.9	22
25	Highly Fluorescent Metalâ€“Organic-Framework Nanocomposites for Photonic Applications. Nano Letters, 2018, 18, 528-534.	9.1	37
26	Two-dimensional structural ordering in a chromophoric ionic liquid for triplet energy migration-based photon upconversion. Physical Chemistry Chemical Physics, 2018, 20, 3233-3240.	2.8	21
27	Composite Functional Nanomaterials Assembled via Electrostatic Interactions of Inorganic Surfaces and Organic Molecules. , 2018, , 32-37.		1
28	Donorâ€“Acceptor Control in Grownâ€inâ€Glass Gallium Oxide Nanocrystals by Crystallizationâ€driven Heterovalent Doping. ChemPhysChem, 2017, 18, 662-669.	2.1	7
29	â€œQuantizedâ€Doping of Individual Colloidal Nanocrystals Using Size-Focused Metal Quantum Clusters. ACS Nano, 2017, 11, 6233-6242.	14.6	21
30	Photocatalytic Water-Splitting Enhancement by Sub-Bandgap Photon Harvesting. ACS Applied Materials & Interfaces, 2017, 9, 40180-40186.	8.0	60
31	Nanodropletâ€Containing Polymers for Efficient Lowâ€Power Light Upconversion. Advanced Materials, 2017, 29, 1702992.	21.0	62
32	Metal Nanoclusters with Synergistically Engineered Optical and Buffering Activity of Intracellular Reactive Oxygen Species by Compositional and Supramolecular Design. Scientific Reports, 2017, 7, 5976.	3.3	18
33	Recent advances in the application tripletâ€“triplet annihilation-based photon upconversion systems to solar technologies. Journal of Photonics for Energy, 2017, 8, 1.	1.3	64
34	Bioimaging: Self-Assembled Dual Dye-Doped Nanosized Micelles for High-Contrast Up-Conversion Bioimaging (Adv. Funct. Mater. 46/2016). Advanced Functional Materials, 2016, 26, 8446-8446.	14.9	3
35	Thermoresponsive low-power light upconverting polymer nanoparticles. Materials Horizons, 2016, 3, 602-607.	12.2	40
36	Permanent excimer superstructures by supramolecular networking of metal quantum clusters. Science, 2016, 353, 571-575.	12.6	54

#	Article	IF	Citations
37	Unraveling Triplet Excitons Photophysics in Hyper-Cross-Linked Polymeric Nanoparticles: Toward the Next Generation of Solid-State Upconverting Materials. Journal of Physical Chemistry Letters, 2016, 7, 2779-2785.	4.6	38
38	Selfâ€Assembled Dual Dyeâ€Doped Nanosized Micelles for Highâ€Contrast Upâ€Conversion Bioimaging. Advanced Functional Materials, 2016, 26, 8447-8454.	14.9	58
39	Solid-State Sensitized Upconversion in Polyacrylate Elastomers. Journal of Physical Chemistry C, 2016, 120, 2609-2614.	3.1	53
40	Efficient Broadband Tripletâ€“Triplet Annihilationâ€Assisted Photon Upconversion at Subsolar Irradiance in Fully Organic Systems. Advanced Functional Materials, 2015, 25, 5617-5624.	14.9	79
41	Fast and long-range triplet exciton diffusion inÂmetalâ€“organic frameworks for photon upconversion at ultralow excitation power. Nature Materials, 2015, 14, 924-930.	27.5	111
42	Highly Efficient Photon Upconversion in Self-Assembled Light-Harvesting Molecular Systems. Scientific Reports, 2015, 5, 10882.	3.3	145
43	Achieving the photon up-conversion thermodynamic yield upper limit by sensitized tripletâ€“triplet annihilation. Physical Chemistry Chemical Physics, 2015, 17, 4020-4024.	2.8	134
44	Broadband Up-Conversion at Subsolar Irradiance: Tripletâ€“Triplet Annihilation Boosted by Fluorescent Semiconductor Nanocrystals. Nano Letters, 2014, 14, 6644-6650.	9.1	62
45	Second-Order Photochemical Upconversion in Organic Systems. Journal of Physical Chemistry A, 2014, 118, 1439-1442.	2.5	10
46	Mineralâ€“organic hybrid nanotubes as highly sensitive solid state optical chemical sensors. Physical Chemistry Chemical Physics, 2014, 16, 2491-2498.	2.8	10
47	High Efficiency Upâ€Converting Single Phase Elastomers for Photon Managing Applications. Advanced Energy Materials, 2013, 3, 680-686.	19.5	108
48	NIR emitting ytterbium chelates for colourless luminescent solar concentrators. Physical Chemistry Chemical Physics, 2012, 14, 6452.	2.8	45
49	Low power, non-coherent sensitized photon up-conversion: modelling and perspectives. Physical Chemistry Chemical Physics, 2012, 14, 4322.	2.8	410
50	Predictive modeling of the vibrational quenching in emitting lanthanides complexes. Synthetic Metals, 2012, 161, 2693-2699.	3.9	20
51	Laser dye doped nanoparticles for highly photostable optical nanoamplifiers. RSC Advances, 2012, 2, 11731.	3.6	11
52	On the effects of a solid environment on sensitized up-conversion. Proceedings of SPIE, 2012, , .	0.8	2
53	White light generation by sensitized photon up-conversion. Chemical Physics Letters, 2012, 521, 17-19.	2.6	4
54	Lowâ€Powerâ€Photon Upâ€Conversion in Dualâ€Dyeâ€Loaded Polymer Nanoparticles. Advanced Functional Materials, 2012, 22, 139-143.	14.9	153

#	Article	IF	Citations
55	Control of Ï€â^'Ï€ Interactions in Epitaxial Films of Platinum(II) Octaethyl Porphyrin. Chemistry of Materials, 2011, 23, 832-840.	6.7	24
56	White light excitation of the near infrared Er3+ emission in exchanged zeolite sensitised by oxygen vacancies. Physical Chemistry Chemical Physics, 2011, 13, 5605.	2.8	20
57	Spectroscopic characterization of red perylimide/surfactant nanocomposites. Journal of Materials Science, 2011, 46, 6402-6407.	3.7	8
58	Energy transfer enhancement by oxygen perturbation of spin-forbidden electronic transitions in aromatic systems. Physical Review B, 2010, 82, .	3.2	21
59	Lasing in one dimensional dye-doped random multilayer. Physical Chemistry Chemical Physics, 2010, 12, 12947.	2.8	11
60	Sensitized NIR Erbium(III) Emission in Confined Geometries: A New Strategy for Light Emitters in Telecom Applications. Journal of the American Chemical Society, 2010, 132, 4574-4576.	13.7	99
61	Effects of Progressive Halogen Substitution on the Photoluminescence Properties of an Erbiumâ^'Porphyrin Complex. Journal of Physical Chemistry A, 2010, 114, 4163-4168.	2.5	32
62	DFB laser action in a flexible fully plastic multilayer. Physical Chemistry Chemical Physics, 2010, 12, 337-340.	2.8	40
63	Publisher's Note: Upconversion-induced fluorescence in multicomponent systems: Steady-state excitation power threshold [Phys. Rev. B78, 195112 (2008)]. Physical Review B, 2009, 80, .	3.2	2
64	Nanoparticle Oneâ€Dimensional Photonicâ€Crystal Dye Laser. Small, 2009, 5, 2048-2052.	10.0	85
65	Multicomponent Polymeric Film for Red to Green Low Power Sensitized Up-Conversion. Journal of Physical Chemistry A, 2009, 113, 1171-1174.	2.5	131
66	Anharmonic overtones quenching in Er3+ complexes. Synthetic Metals, 2009, 159, 2410-2412.	3.9	8
67	Vibrational overtones quenching of near infrared emission in Er3+ complexes. New Journal of Chemistry, 2009, 33, 1542.	2.8	26
68	Effect of an External Magnetic Field on the Up-Conversion Photoluminescence of Organic Films: The Role of Disorder in Triplet-Triplet Annihilation. Physical Review Letters, 2009, 102, 087404.	7.8	66
69	Novel Er³⁺ Perfluorinated Complexes for Broadband Sensitized Near Infrared Emission. Chemistry of Materials, 2009, 21, 128-135.	6.7	52
70	Perfluorinated nitrosopyrazolone-based erbium chelates: a new efficient solution processable NIR emitter. Chemical Communications, 2009, , 5103.	4.1	28
71	Confined diffusion of erbium excitations inSnO2nanoparticles embedded in silica: A time-resolved infrared luminescence study. Physical Review B, 2009, 79, .	3.2	17
72	Sentitized near-infrared emission in novel neodymium complexes bearing oligothiophene derivatives as antennae. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 45-49.	3.5	1

#	ARTICLE	IF	CITATIONS
73	Upconversion-induced fluorescence in multicomponent systems: Steady-state excitation power threshold. Physical Review B, 2008, 78, .	3.2	398
74	Upconversion-induced delayed fluorescence in multicomponent organic systems: Role of Dexter energy transfer. Physical Review B, 2008, 77, .	3.2	182
75	Sensitized near infrared emission from lanthanide-exchanged zeolites. Applied Physics Letters, 2008, 92, 123301.	3.3	39
76	Diffusion Enhanced Upconversion in Organic Systems. International Journal of Photoenergy, 2008, 2008, 1-5.	2.5	5
77	One Dimensional Polymeric Organic Photonic Crystals for DFB Lasers. International Journal of Photoenergy, 2008, 2008, 1-4.	2.5	33
78	Non-radiative decay processes in Er³⁺ organic complexes. , 2007, , .		0
79	Light emission and structural properties of undoped and erbium-doped nanostructured silica with SnO 2 nanoparticles. Proceedings of SPIE, 2007, , .	0.8	0
80	Growth of SnO2nanocrystals controlled by erbium doping in silica. Nanotechnology, 2006, 17, 4031-4036.	2.6	26