

Nobuhiro Yanai

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113
papers

6,141
citations

38
h-index

77
g-index

133
ext. papers

6,861
ext. citations

8.8
avg, IF

6.25
L-index

#	Paper	IF	Citations
113	One-dimensional imidazole aggregate in aluminium porous coordination polymers with high proton conductivity. <i>Nature Materials</i> , 2009 , 8, 831-6	27	625
112	Polymerization reactions in porous coordination polymers. <i>Chemical Society Reviews</i> , 2009 , 38, 1228-36	58.5	568
111	Gas detection by structural variations of fluorescent guest molecules in a flexible porous coordination polymer. <i>Nature Materials</i> , 2011 , 10, 787-93	27	351
110	Guest-to-host transmission of structural changes for stimuli-responsive adsorption property. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4501-4	16.4	276
109	Colloidal-sized metal-organic frameworks: synthesis and applications. <i>Accounts of Chemical Research</i> , 2014 , 47, 459-69	24.3	247
108	Photon upconversion in supramolecular gel matrixes: spontaneous accumulation of light-harvesting donor-acceptor arrays in nanofibers and acquired air stability. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1887-94	16.4	229
107	Photon upconverting liquids: matrix-free molecular upconversion systems functioning in air. <i>Journal of the American Chemical Society</i> , 2013 , 135, 19056-9	16.4	185
106	New Triplet Sensitization Routes for Photon Upconversion: Thermally Activated Delayed Fluorescence Molecules, Inorganic Nanocrystals, and Singlet-to-Triplet Absorption. <i>Accounts of Chemical Research</i> , 2017 , 50, 2487-2495	24.3	183
105	Reversible water-induced magnetic and structural conversion of a flexible microporous Ni(II)Fe(III) ferromagnet. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3496-7	16.4	176
104	Unveiling thermal transitions of polymers in subnanometre pores. <i>Nature Communications</i> , 2010 , 1, 83	17.4	164
103	Near-Infrared-to-Visible Photon Upconversion Sensitized by a Metal Complex with Spin-Forbidden yet Strong S ₀ -T ₁ Absorption. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8702-5	16.4	132
102	Highly Efficient Photon Upconversion in Self-Assembled Light-Harvesting Molecular Systems. <i>Scientific Reports</i> , 2015 , 5, 10882	4.9	128
101	Recent emergence of photon upconversion based on triplet energy migration in molecular assemblies. <i>Chemical Communications</i> , 2016 , 52, 5354-70	5.8	128
100	Electric field-induced assembly of monodisperse polyhedral metal-organic framework crystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 34-7	16.4	126
99	Fabrication of two-dimensional polymer arrays: template synthesis of polypyrrole between redox-active coordination nanoslits. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9883-6	16.4	118
98	Porous coordination polymer with pyridinium cationic surface, [Zn(2)(tpa)(2)(cpb)]. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10336-7	16.4	108
97	Directional self-assembly of a colloidal metal-organic framework. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5638-41	16.4	105

96	A switchable molecular rotator: neutron spectroscopy study on a polymeric spin-crossover compound. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5083-9	16.4	103
95	Fast and long-range triplet exciton diffusion in metal-organic frameworks for photon upconversion at ultralow excitation power. <i>Nature Materials</i> , 2015 , 14, 924-30	27	94
94	Template Synthesis of Porous Polypyrrole in 3D Coordination Nanochannels. <i>Chemistry of Materials</i> , 2009 , 21, 4096-4098	9.6	81
93	Triplet sensitization by perovskite nanocrystals for photon upconversion. <i>Chemical Communications</i> , 2017 , 53, 8261-8264	5.8	80
92	Storage and sorption properties of acetylene in jungle-gym-like open frameworks. <i>Chemistry - an Asian Journal</i> , 2008 , 3, 1343-9	4.5	80
91	Employing Core-Shell Quantum Dots as Triplet Sensitizers for Photon Upconversion. <i>Chemistry - A European Journal</i> , 2016 , 22, 7721-6	4.8	78
90	Synthesis and Electric Properties of a Two-Dimensional Metal-Organic Framework Based on Phthalocyanine. <i>Chemistry - A European Journal</i> , 2018 , 24, 1806-1810	4.8	76
89	Increased vis-to-UV upconversion performance by energy level matching between a TADF donor and high triplet energy acceptors. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6447-6451	7.1	71
88	Near-Infrared Optogenetic Genome Engineering Based on Photon-Upconversion Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17827-17833	16.4	67
87	Design of flexible Lewis acidic sites in porous coordination polymers by using the viologen moiety. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8369-72	16.4	67
86	A bis-cyclometalated iridium complex as a benchmark sensitizer for efficient visible-to-UV photon upconversion. <i>Chemical Communications</i> , 2014 , 50, 13111-3	5.8	65
85	Photon-Upconverting Ionic Liquids: Effective Triplet Energy Migration in Contiguous Ionic Chromophore Arrays. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11550-4	16.4	64
84	Aggregation-induced photon upconversion through control of the triplet energy landscapes of the solution and solid states. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7544-9	16.4	62
83	Near infrared-to-blue photon upconversion by exploiting direct S ₁ absorption of a molecular sensitizer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5063-5067	7.1	60
82	Simple and Versatile Platform for Air-Tolerant Photon Upconverting Hydrogels by Biopolymer-Surfactant-Chromophore Co-assembly. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10848-10855	16.4	54
81	Photon Upconversion and Molecular Solar Energy Storage by Maximizing the Potential of Molecular Self-Assembly. <i>Langmuir</i> , 2016 , 32, 12304-12322	4	53
80	Impact of metal-ion dependence on the porous and electronic properties of TCNQ-dianion-based porous coordination polymers. <i>Inorganic Chemistry</i> , 2011 , 50, 172-7	5.1	49
79	Triplet energy migration-based photon upconversion by amphiphilic molecular assemblies in aerated water. <i>Chemical Science</i> , 2016 , 7, 5224-5229	9.4	49

78	Solid-State Photon Upconversion Materials: Structural Integrity and Triplet-Singlet Dual Energy Migration. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4613-4624	6.4	46
77	Donor-Acceptor-Collector Ternary Crystalline Films for Efficient Solid-State Photon Upconversion. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8788-8796	16.4	42
76	Inclusion and dynamics of a polymer-Li salt complex in coordination nanochannels. <i>Chemical Communications</i> , 2011 , 47, 1722-4	5.8	41
75	Near-incompressible faceted polymer microcapsules from metal-organic framework templates. <i>Advanced Materials</i> , 2013 , 25, 5767-71	24	35
74	Molecularly Dispersed Donors in Acceptor Molecular Crystals for Photon Upconversion under Low Excitation Intensity. <i>Chemistry - A European Journal</i> , 2016 , 22, 2060-2067	4.8	34
73	Quasi-thresholdless Photon Upconversion in Metal-Organic Framework Nanocrystals. <i>Nano Letters</i> , 2019 , 19, 2169-2177	11.5	33
72	Metallonaphthalocyanines as triplet sensitizers for near-infrared photon upconversion beyond 850 nm. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 22557-60	3.6	29
71	Visible-to-UV Photon Upconversion Sensitized by Lead Halide Perovskite Nanocrystals. <i>Chemistry Letters</i> , 2019 , 48, 1347-1350	1.7	29
70	Absolute Method to Certify Quantum Yields of Photon Upconversion via Triplet-Triplet Annihilation. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 10197-10203	2.8	27
69	Directional Self-Assembly of a Colloidal Metal-Organic Framework. <i>Angewandte Chemie</i> , 2012 , 124, 5736-5739	5.6	27
68	Binding properties of solvatochromic indicators [Cu(X)(acac)(tmen)] (X = PF ₆ ⁻ and BF ₄ ⁻ , acac = Acetylacetonate, tmen = N,N,N',N'-tetramethylethylenediamine) in solution and the solid state. <i>Inorganic Chemistry</i> , 2008 , 47, 7360-5	5.1	27
67	Behavior of Binary Guests in a Porous Coordination Polymer. <i>Chemistry of Materials</i> , 2012 , 24, 4744-4749	5.6	26
66	Fabrication of Two-Dimensional Polymer Arrays: Template Synthesis of Polypyrrole between Redox-Active Coordination Nanoslits. <i>Angewandte Chemie</i> , 2008 , 120, 10031-10034	3.6	26
65	Preorganized Chromophores Facilitate Triplet Energy Migration, Annihilation and Upconverted Singlet Energy Collection. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6541-9	16.4	26
64	Stimuli-Responsive Molecular Photon Upconversion. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10252-10264	16.4	25
63	All-or-none switching of photon upconversion in self-assembled organogel systems. <i>Faraday Discussions</i> , 2017 , 196, 305-316	3.6	25
62	Hybridizing semiconductor nanocrystals with metal-organic frameworks for visible and near-infrared photon upconversion. <i>Dalton Transactions</i> , 2018 , 47, 8590-8594	4.3	24
61	Leaping across the visible range: near-infrared-to-violet photon upconversion employing a silyl-substituted anthracene. <i>Chemical Communications</i> , 2020 , 56, 7017-7020	5.8	23

60	Discovery of Key TIPS-Naphthalene for Efficient Visible-to-UV Photon Upconversion under Sunlight and Room Light*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 142-147	16.4	22
59	Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-to-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2806-2810	16.4	21
58	Supramolecular Crowding Can Avoid Oxygen Quenching of Photon Upconversion in Water. <i>Chemistry - A European Journal</i> , 2019 , 25, 6124-6130	4.8	21
57	Design of Flexible Lewis Acidic Sites in Porous Coordination Polymers by using the Viologen Moiety. <i>Angewandte Chemie</i> , 2012 , 124, 8494-8497	3.6	20
56	Aggregation-Induced Photon Upconversion through Control of the Triplet Energy Landscapes of the Solution and Solid States. <i>Angewandte Chemie</i> , 2015 , 127, 7654-7659	3.6	19
55	Air-Sensitive Photoredox Catalysis Performed under Aerobic Conditions in Gel Networks. <i>Journal of Organic Chemistry</i> , 2018 , 83, 7928-7938	4.2	19
54	Dynamic Nuclear Polarization of Metal-Organic Frameworks Using Photoexcited Triplet Electrons. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15606-15610	16.4	18
53	Nonpentacene Polarizing Agents with Improved Air Stability for Triplet Dynamic Nuclear Polarization at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2208-2213	6.4	17
52	Aggregation-free sensitizer dispersion in rigid ionic crystals for efficient solid-state photon upconversion and demonstration of defect effects. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5609-5615	7.1	17
51	Two-dimensional structural ordering in a chromophoric ionic liquid for triplet energy migration-based photon upconversion. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3233-3240	3.6	17
50	Inclusion and dielectric properties of a vinylidene fluoride oligomer in coordination nanochannels. <i>Dalton Transactions</i> , 2012 , 41, 4195-8	4.3	16
49	Visible-to-UV Photon Upconversion in Nanostructured Chromophoric Ionic Liquids. <i>ChemistryOpen</i> , 2020 , 9, 14-17	2.3	14
48	Photon Upconverting Solid Films with Improved Efficiency for Endowing Perovskite Solar Cells with Near-Infrared Sensitivity. <i>ChemPhotoChem</i> , 2020 , 4, 5271-5278	3.3	14
47	Translating MOF chemistry into supramolecular chemistry: soluble coordination nanofibers showing efficient photon upconversion. <i>Chemical Communications</i> , 2018 , 54, 6828-6831	5.8	13
46	Controlled Encapsulation of Photoresponsive Macromolecules in Porous Coordination Polymer. <i>Chemistry Letters</i> , 2013 , 42, 222-223	1.7	12
45	Kinetically controlled crystal growth approach to enhance triplet energy migration-based photon upconversion. <i>Journal of Photonics for Energy</i> , 2017 , 8, 1	1.2	12
44	Recent Progress in Photon Upconverting Gels. <i>Gels</i> , 2019 , 5,	4.2	11
43	Upconverting Oil-Laden Hollow Mesoporous Silica Microcapsules for Anti-Stokes-Based Biophotonic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26571-26580	9.5	11

42	Number of Surface-Attached Acceptors on a Quantum Dot Impacts Energy Transfer and Photon Upconversion Efficiencies. <i>ACS Photonics</i> , 2020 , 7, 1876-1884	6.3	10
41	In optimized rubrene-based nanoparticle blends for photon upconversion, singlet energy collection outcompetes triplet-pair separation, not singlet fission. <i>Journal of Materials Chemistry C</i> ,	7.1	10
40	Spin Statistics for Triplet-Triplet Annihilation Upconversion: Exchange Coupling, Intermolecular Orientation, and Reverse Intersystem Crossing.. <i>Jacs Au</i> , 2021 , 1, 2188-2201		10
39	Near-Infrared Optogenetic Genome Engineering Based on Photon-Upconversion Hydrogels. <i>Angewandte Chemie</i> , 2019 , 131, 17991-17997	3.6	9
38	Triplet dynamic nuclear polarization of crystalline ice using water-soluble polarizing agents. <i>Chemical Communications</i> , 2020 , 56, 3717-3720	5.8	9
37	Triplet dynamic nuclear polarization of nanocrystals dispersed in water at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16408-16412	3.6	9
36	Materials chemistry of triplet dynamic nuclear polarization. <i>Chemical Communications</i> , 2020 , 56, 7217-7233	3.8	8
35	Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-to-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane. <i>Angewandte Chemie</i> , 2018 , 130, 2856-2860	3.6	8
34	Photoinduced Crystallization in Ionic Liquids: Photodimerization-induced Equilibrium Shift and Crystal Patterning. <i>Chemistry Letters</i> , 2015 , 44, 908-910	1.7	8
33	Bulk Transparent Photon Upconverting Films by Dispersing High-Concentration Ionic Emitters in Epoxy Resins. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 13676-13683	9.5	8
32	Visible-to-UV photon upconversion in air-saturated water by multicomponent co-assembly. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 792-796	4.6	7
31	Photon-Upconverting Ionic Liquids: Effective Triplet Energy Migration in Contiguous Ionic Chromophore Arrays. <i>Angewandte Chemie</i> , 2015 , 127, 11712-11716	3.6	7
30	End-functionalization of a vinylidene fluoride oligomer in coordination nanochannels. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8021		7
29	Heavy metal-free visible-to-UV photon upconversion with over 20% efficiency sensitized by a ketocoumarin derivative. <i>Journal of Materials Chemistry C</i> ,	7.1	7
28	Near-Infrared-to-Visible Photon Upconversion by Introducing an S ^{III} Absorption Sensitizer into a Metal-Organic Framework. <i>ChemNanoMat</i> , 2020 , 6, 916-919	3.5	6
27	Regioselective Functionalization of the Mesoporous Metal-Organic Framework, NU-1000, with Photo-Active Tris-(2,2Rbipyridine)ruthenium(II). <i>ACS Omega</i> , 2020 , 5, 30299-30305	3.9	6
26	Singlet-to-Triplet Absorption for Near-Infrared-to-Visible Photon Upconversion. <i>Bulletin of the Chemical Society of Japan</i> , 2021 , 94, 1760-1768	5.1	6
25	Green-to-UV photon upconversion enabled by new perovskite nanocrystal-transmitter-emitter combination. <i>Nanoscale</i> , 2021 ,	7.7	5

24	Oligo(ethylene glycol)/alkyl-modified Chromophore Assemblies for Photon Upconversion in Water. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1723-1728	4.5	5
23	Photon upconverting bioplastics with high efficiency and in-air durability. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11655-11661	7.1	5
22	One-dimensional imidazole aggregate in aluminium porous coordination polymers with high proton conductivity 2010 , 232-237		4
21	Porphyryns as Versatile, Aggregation-Tolerant, and Biocompatible Polarizing Agents for Triplet Dynamic Nuclear Polarization of Biomolecules. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2645-2650	6.4	4
20	Discovery of Key TIPS-Naphthalene for Efficient Visible-to-UV Photon Upconversion under Sunlight and Room Light**. <i>Angewandte Chemie</i> , 2021 , 133, 144-149	3.6	4
19	Stimuli-Responsive Molecular Photon Upconversion. <i>Angewandte Chemie</i> , 2020 , 132, 10336-10348	3.6	3
18	Sensitizer-Free Photon Upconversion in Single-Component Brominated Aromatic Crystals. <i>ChemistrySelect</i> , 2017 , 2, 7597-7601	1.8	3
17	Design Guidelines for Rigid Epoxy Resins with High Photon Upconversion Efficiency: Critical Role of Emitter Concentration.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
16	Design Guidelines to Elongate Spin-Lattice Relaxation Times of Porphyrins with Large Triplet Electron Polarization. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 4334-4340	2.8	3
15	Triplet Dynamic Nuclear Polarization of Guest Molecules through Induced Fit in a Flexible Metal-Organic Framework.. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	2
14	Comparing Geometry and Chemistry When Confined Molecules Diffuse in Monodisperse Metal-Organic Framework Pores. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6399-6403	6.4	2
13	Photon Upconversion in TTA-Inducing Ionic Liquids: Pinpointing the Role of IL Nanostructured Media Using MD Simulations. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3137-3144	3.4	1
12	Innenstruktur: Directional Self-Assembly of a Colloidal Metal-Organic Framework (Angew. Chem. 23/2012). <i>Angewandte Chemie</i> , 2012 , 124, 5863-5863	3.6	1
11	Aqueous Photon Upconversion by Anionic Acceptors Self-Assembled on Cationic Bilayer Membranes with a Long Triplet Lifetime. <i>Organic Materials</i> , 2019 , 01, 043-049	1.9	1
10	Molecular Technology of Excited Triplet State 2019 , 155-186		
9	Organic Liquids in Energy Systems 2019 , 101-126		
8	Supramolecular Crowding Can Avoid Oxygen Quenching of Photon Upconversion in Water. <i>Chemistry - A European Journal</i> , 2019 , 25, 6042-6042	4.8	
7	Visible-to-UV Photon Upconversion in Nanostructured Chromophoric Ionic Liquids. <i>ChemistryOpen</i> , 2020 , 9, 3	2.3	

6	Specific Uniaxial Self-assembly of Columnar Perylene Liquid Crystals in Au Nanofin Arrays. <i>Chemistry Letters</i> , 2018 , 47, 354-357	1.7
5	Innentitelbild: Stimuli-Responsive Dual-Color Photon Upconversion: A Singlet-to-Triplet Absorption Sensitizer in a Soft Luminescent Cyclophane (Angew. Chem. 11/2018). <i>Angewandte Chemie</i> , 2018 , 130, 2778-2778	3.6
4	New Photon Upconversion Routes based on Coordination Compounds. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2019 , 73, 24-31	0.3
3	Inside Back Cover: Directional Self-Assembly of a Colloidal MetalOrganic Framework (Angew. Chem. Int. Ed. 23/2012). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5763-5763	16.4
2	Formation, Assembly, and Function of Nano- and Micron-Sized Coordination Polymer Particles. <i>Kobunshi Ronbunshu</i> , 2013 , 70, 235-241	0
1	Near-Infrared-to-Visible Photon Upconversion 2022 , 29-48	