

# P Stanley May Jr

## List of Publications by Year in descending order

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78  
papers

3,098  
citations

186254

28  
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161844

54  
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78  
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78  
docs citations

78  
times ranked

3490  
citing authors

#	ARTICLE	IF	CITATIONS
1	Security printing of covert quick response codes using upconverting nanoparticle inks. <i>Nanotechnology</i> , 2012, 23, 395201.	2.6	213
2	Near-Infrared (NIR) to Red and Green Up-Conversion Emission from Silica Sol-Gel Thin Films Made with La <sub>0.45</sub> Yb <sub>0.50</sub> Er <sub>0.05</sub> F <sub>3</sub> Nanoparticles, Hetero-Looping-Enhanced Energy Transfer (Hetero-LEET): A New Up-Conversion Process. <i>Journal of the American Chemical Society</i> , 2007, 129, 620-625.	13.7	199
3	Red-green-blue printing using luminescence-upconversion inks. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2221.	5.5	182
4	Temperature Dependence of the Eu <sup>3+</sup> 5D <sub>0</sub> Lifetime in Europium Tris(2,2,6,6-tetramethyl-3,5-heptanedionato). <i>The Journal of Physical Chemistry</i> , 1996, 100, 9216-9222.	2.9	176
5	Revisiting the NIR-to-Visible Upconversion Mechanism in $\text{Yb}^{3+}/\text{Er}^{3+}/\text{NaYF}_4$ Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 36-42.	4.6	169
6	Disputed Mechanism for NIR-to-Red Upconversion Luminescence in $\text{Yb}^{3+}/\text{Er}^{3+}/\text{NaYF}_4$ Nanocrystals. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9805-9811.	2.5	149
7	Enhancement of Near-Infrared-to-Visible Upconversion Luminescence Using Engineered Plasmonic Gold Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19028-19036.	3.1	115
8	Patterned direct-write and screen-printing of NIR-to-visible upconverting inks for security applications. <i>Nanotechnology</i> , 2012, 23, 185305.	2.6	114
9	Highly Luminescent NIR-to-Visible Upconversion Thin Films and Monoliths Requiring No High-Temperature Treatment. <i>Chemistry of Materials</i> , 2009, 21, 3406-3413.	6.7	108
10	Preparation and optical properties of silver nanowires and silver-nanowire thin films. <i>Journal of Colloid and Interface Science</i> , 2011, 356, 151-158.	9.4	104
11	Explaining the Nanoscale Effect in the Upconversion Dynamics of $\text{Yb}^{3+}/\text{Er}^{3+}/\text{NaYF}_4$ Core and Core-Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16592-16606.	3.1	84
12	Dipicolinate Sensitization of Europium Luminescence in Dispersible 5%Eu:LaF <sub>3</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14740-14747.	3.1	82
13	Sensitization of Eu <sup>3+</sup> Luminescence in Eu:YPO <sub>4</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5953-5962.	3.1	62
14	Two-Color Surface Plasmon Polariton Enhanced Upconversion in $\text{Yb}^{3+}/\text{Tm}^{3+}/\text{NaYF}_4$ Nanoparticles on Au Nanopillar Arrays. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3251-3257.	3.1	60
15	Calculation of Judd-Ofelt parameters for Er <sup>3+</sup> in $\text{Yb}^{3+}/\text{Er}^{3+}/\text{NaYF}_4$ from emission intensity ratios and diffuse reflectance spectra. <i>Journal of Luminescence</i> , 2015, 160, 276-281.	3.1	55
16	Luminescence Properties and Water Coordination of Eu <sup>3+</sup> in the Binary Solvent Mixture Water/1-Butyl-3-methylimidazolium Chloride. <i>Inorganic Chemistry</i> , 2007, 46, 7121-7128.	4.0	44
17	Real-Time-Monitoring of the Synthesis of $\text{Yb}^{3+}/\text{Er}^{3+}/\text{NaYF}_4$ Nanocrystals Using NIR-to-Visible Upconversion Luminescence. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13238-13247.	3.1	44
18	Circular dichroism spectra and electronic rotatory strengths of the samarium 4f <sup>6</sup> 4f transitions in Na <sub>3</sub> [Sm(oxydiacetate) <sub>3</sub> ]·2NaClO <sub>4</sub> ·6H <sub>2</sub> O. <i>Molecular Physics</i> , 1987, 62, 341-364.	1.7	43

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19	Near Infrared-to-Near Infrared Upconversion Nanocrystals for Latent Fingerprint Development. <i>ACS Applied Nano Materials</i> , 2019, 2, 4518-4527.	5.0	41
20	Layer-by-layer assembly of freestanding thin films with homogeneously distributed upconversion nanocrystals. <i>Journal of Materials Chemistry</i> , 2010, 20, 8356.	6.7	40
21	Upconversion polymeric nanofibers containing lanthanide-doped nanoparticles via electrospinning. <i>Nanoscale</i> , 2012, 4, 7369.	5.6	36
22	Electric dipole intensity parameters for the samarium $4f^6 \rightarrow 4f^5$ transitions in $\text{Na}_3[\text{Sm}(\text{oxydiacetate})_3] \cdot 2\text{NaClO}_4 \cdot 6\text{H}_2\text{O}$ . <i>Molecular Physics</i> , 1987, 61, 1471-1485.	1.7	35
23	Luminescence Properties and Quenching Mechanisms of $\text{Ln}(\text{Tf})_2\text{N}$ Complexes in the Ionic Liquid <i>bmpyr</i> . <i>Inorganic Chemistry</i> , 2011, 50, 6509-6520.	4.0	34
24	DFT Calculation of Russell-Saunders Splitting for Lanthanide Ions Doped in Hexagonal $\text{Y}^{2+}$ - $\text{NaYF}_4$ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17177-17185.	3.1	31
25	Temperature Dependence of Rate Constants for $\text{Tb}^{3+}(5D_3)$ Cross Relaxation in Symmetric $\text{Tb}^{3+}$ Pairs in $\text{Tb}$ -Doped $\text{CsCdBr}_3$ , $\text{CsMgBr}_3$ , $\text{CsMgCl}_3$ . <i>Journal of Physical Chemistry B</i> , 2003, 107, 4002-4011.	2.6	30
26	Monoporphyrinate ytterbium(III) complexes with new ancillary ligands: synthesis, structural analysis and photophysical investigation. <i>Dalton Transactions</i> , 2009, , 4766.	3.3	30
27	Sequential hydrogen dissociation from a charged $\text{Pt}_{13}\text{H}_{24}$ cluster modeled by <i>ab initio</i> molecular dynamics. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3896-3903.	2.0	29
28	Measuring the internal quantum yield of upconversion luminescence for ytterbium-sensitized upconversion phosphors using the ytterbium( $\text{III}$ ) emission as an internal standard. <i>Nanoscale</i> , 2018, 10, 17212-17226.	5.6	29
29	Optical spectra, energy levels and crystal-field analysis of $\text{Sm}^{3+}$ in $\text{Na}_3[\text{Sm}(\text{oxydiacetate})_3] \cdot 2\text{NaClO}_4 \cdot 6\text{H}_2\text{O}$ . <i>Molecular Physics</i> , 1987, 61, 1455-1470.	1.7	28
30	Infrared luminescence properties of $\text{Ni}^{2+}$ in various chloride lattices: $\text{CsCdCl}_3$ , $\text{CsMgCl}_3$ , $\text{CdCl}_2$ , and $\text{MgCl}_2$ . <i>Journal of Luminescence</i> , 1990, 46, 277-290.	3.1	26
31	Effect of Ligand Deuteration on the Decay of $\text{Eu}^{3+}(5D_0)$ in $\text{Tris}(2,2,6,6\text{-tetramethyl-3,5-heptanedionato})\text{europium(III)}$ . <i>Journal of Physical Chemistry A</i> , 1998, 102, 8690-8694.	2.5	26
32	Photodissociation and Photoionization Mechanisms in Lanthanide-based Fluorinated $\text{Y}^{2+}$ -Diketonate Metal-Organic Chemical-Vapor Deposition Precursors. <i>Chemistry of Materials</i> , 2009, 21, 5801-5808.	6.7	26
33	Time-dependent excited-state molecular dynamics of photodissociation of lanthanide complexes for laser-assisted metal-organic chemical vapour deposition. <i>Molecular Physics</i> , 2014, 112, 508-517.	1.7	26
34	Photofragmentation of the Gas-Phase Lanthanum Isopropylcyclopentadienyl Complex: Computational Modeling vs Experiment. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10838-10848.	2.5	26
35	The Dynamics of Nanoparticle Growth and Phase Change During Synthesis of $\text{Y}^{2+}$ - $\text{NaYF}_4$ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 9482-9489.	3.1	26
36	Photoinduced Charge Transfer versus Fragmentation Pathways in Lanthanum Cyclopentadienyl Complexes. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4281-4296.	5.3	26

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37	Structure and photophysics of near-infrared emissive ytterbium(iii) monoporphyrinate acetate complexes having neutral bidentate ligands. Dalton Transactions, 2009, , 7454.	3.3	25
38	(BMI) <sub>3</sub> LnCl <sub>6</sub> Crystals as Models for the Coordination Environment of LnCl <sub>3</sub> (Ln = Sm, Eu, Dy, Er, Yb) in 1-Butyl-3-methylimidazolium Chloride Ionic-Liquid Solution. Inorganic Chemistry, 2014, 53, 5494-5501.	4.0	25
39	Radiative and nonradiative processes affecting higher excited-state luminescence of Ni <sup>2+</sup> in several chloride lattices. Journal of Chemical Physics, 1991, 95, 6343-6354.	3.0	23
40	Hybridization of near-infrared emitting erbium(iii) and ytterbium(iii) monoporphyrinate complexes with silica xerogel: synthesis, structure and photophysics. Dalton Transactions, 2010, 39, 6466.	3.3	23
41	Spectroscopic Imaging and Power Dependence of Near-Infrared to Visible Upconversion Luminescence from NaYF <sub>4</sub> :Yb <sup>3+</sup> ,Er <sup>3+</sup> Nanoparticles on Nanocavity Arrays. Journal of Physical Chemistry C, 2015, 119, 24976-24982.	3.1	23
42	Thin Film Deposition and Photodissociation Mechanisms for Lanthanide Oxide Production from Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)Ln(III) in Laser-Assisted MOCVD. Chemistry of Materials, 2010, 22, 6056-6064.	6.7	22
43	Higher excited-state luminescence of Ni <sup>2+</sup> in various chloride lattices: CsCdCl <sub>3</sub> , CsMgCl <sub>3</sub> , CdCl <sub>2</sub> and MgCl <sub>2</sub> . Chemical Physics Letters, 1989, 164, 612-616.	2.6	21
44	Tb <sup>3+</sup> Luminescence in Tb-Doped and Tb/Gd-Doped CsCdBr <sub>3</sub> Crystals: $\hat{A}5D4 \hat{\uparrow} 5D3$ Cross-Relaxation Rates in Tb <sup>3+</sup> Pairs. Journal of Physical Chemistry A, 1997, 101, 9571-9577.	2.5	21
45	Spectroscopic Evidence for Equilibrium between Eight- and Nine-Coordinate Eu <sup>3+</sup> (aq) Species in 0.1 M EuCl <sub>3</sub> (aq). Journal of Physical Chemistry A, 2004, 108, 6624-6628.	2.5	21
46	Tutorial on the acquisition, analysis, and interpretation of upconversion luminescence data. Methods and Applications in Fluorescence, 2019, 7, 023001.	2.3	21
47	Cross-Relaxation from Er <sup>3+</sup> ( <sup>2</sup> H <sub>11/2</sub> , <sup>4</sup> S <sub>3/2</sub> ) and Er <sup>3+</sup> ( <sup>2</sup> H <sub>9/2</sub> ) in $\hat{I}^2$ -NaYF <sub>4</sub> :Yb,Er and Implications for Modeling Upconversion Dynamics. Journal of Physical Chemistry C, 2020, 124, 2193-2201.	3.1	21
48	Non-radiative deactivation of the europium 5D <sub>0</sub> excited state by water molecules outside the primary coordination sphere of Eu <sup>3+</sup> in Na <sub>3</sub> [Eu (C <sub>4</sub> H <sub>4</sub> O <sub>5</sub> ) <sub>3</sub> ] · 2NaClO <sub>4</sub> · 6H <sub>2</sub> O. Chemical Physics Letters, 1991, 179, 277-281.	2.6	20
49	Influence of colloidal-gold films on the luminescence of Eu(TTFA) <sub>3</sub> in PMMA. Journal of Luminescence, 2010, 130, 1907-1915.	3.1	20
50	A previously unobserved luminescence of Ni <sup>2+</sup> in Ni <sup>2+</sup> : KMgF <sub>3</sub> and Ni <sup>2+</sup> : KZnF <sub>3</sub> . Chemical Physics Letters, 1990, 175, 488-492.	2.6	19
51	Geometry dependence of field enhancement in 2D metallic photonic crystals. Optics Express, 2009, 17, 22179.	3.4	19
52	Non-collinear spin DFT for lanthanide ions in doped hexagonal NaYF <sub>4</sub> . Molecular Physics, 2014, 112, 546-556.	1.7	19
53	Measurement and analysis of electronic energy transfer between Tb <sup>3+</sup> and Eu <sup>3+</sup> ions in Cs <sub>2</sub> NaY <sub>1-x</sub> Y <sub>x</sub> TbxEu <sub>y</sub> Cl <sub>6</sub> . Chemical Physics, 1994, 186, 77-103.	1.9	18
54	Quenching of coumarin emission by CdSe and CdSe/ZnS quantum dots: Implications for fluorescence reporting. Journal of Luminescence, 2013, 141, 99-105.	3.1	18

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55	Insight into band positions and inter-particle electron transfer dynamics between CdS nanoclusters and spatially isolated TiO <sub>2</sub> dispersed in cubic MCM-48 mesoporous materials: a highly efficient system for photocatalytic hydrogen evolution under visible light illumination. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2048-2061.	2.8	17
56	Stable Inks Containing Upconverting Nanoparticles Based on an Oil-in-Water Nanoemulsion. <i>Langmuir</i> , 2018, 34, 1535-1541.	3.5	16
57	Optical Properties of Eu-Doped and Eu <sup>2+</sup> Gd Co-Doped CsMgCl <sub>3</sub> : Temperature Dependence of Rate Constants for 5D <sub>2</sub> and 5D <sub>1</sub> Cross Relaxation in Symmetric Eu(III)-Eu(III) Pairs. <i>Journal of Physical Chemistry A</i> , 2000, 104, 209-216.	2.5	15
58	Photofragmentation Pathways for Gas-Phase Lanthanide Tris(isopropylcyclopentadienyl) Complexes. <i>Organometallics</i> , 2016, 35, 3461-3473.	2.3	14
59	Wavelength and Metal Dependence in the Photofragmentation of a Gas-Phase Lanthanide <sup>η</sup> 2-Diketonate Complex. <i>Journal of Physical Chemistry A</i> , 2007, 111, 4144-4149.	2.5	12
60	Wavelength Dependent Photofragmentation Patterns of Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)Ln(III) (Ln = Eu, Tb, Gd) in a Molecular Beam. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7751-7754.	2.5	11
61	Optical properties of host material for phosphor computational modeling. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3889-3895.	2.0	10
62	Molecular dynamics in finding nonadiabatic coupling for <sup>η</sup> 2-NaYF <sub>4</sub> :Ce <sup>3+</sup> nanocrystals. <i>Molecular Physics</i> , 2015, 113, 385-391.	1.7	10
63	Photofragmentation of Gas-Phase Lanthanide Cyclopentadienyl Complexes: Experimental and Time-Dependent Excited-State Molecular Dynamics. <i>Organometallics</i> , 2014, 33, 1574-1586.	2.3	8
64	Self-limiting adsorption of Eu <sup>3+</sup> on the surface of rod-shape anatase TiO <sub>2</sub> nanocrystals and post-synthetic sensitization of the europium-based emission. <i>Journal of Colloid and Interface Science</i> , 2015, 459, 63-69.	9.4	8
65	Photoinduced dynamics to photoluminescence in Ln <sup>3+</sup> (Ln = Ce, Pr) doped <sup>η</sup> 2-NaYF <sub>4</sub> nanocrystals computed in basis of non-collinear spin DFT with spin-orbit coupling. <i>Molecular Physics</i> , 2018, 116, 697-707.	1.7	8
66	BODIPY-functionalized 1,10-phenanthroline as a long wavelength sensitizer for near-infrared emission of the ytterbium(III) ion. <i>Dalton Transactions</i> , 2019, 48, 13880-13887.	3.3	7
67	Optical observation of the kinetics of thermalization between the 3P <sub>0</sub> and 3P <sub>1</sub> excited states of Pr <sup>3+</sup> in symmetrical Pr <sup>3+</sup> -Gd <sup>3+</sup> pairs in CsCdBr <sub>3</sub> . <i>Journal of Luminescence</i> , 2005, 111, 131-138.	3.1	6
68	Multi-layered covert QR codes for increased capacity and security. <i>International Journal of Computers and Applications</i> , 2015, 37, 17-27.	1.3	6
69	Temperature dependence of excited-state relaxation processes of Pr <sup>3+</sup> in Pr-doped and Pr, Gd-doped CsCdBr <sub>3</sub> . <i>Journal of Luminescence</i> , 2006, 118, 147-157.	3.1	5
70	Rare-Earth Doped Nanoparticles in Security Printing Applications. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1471, 62.	0.1	4
71	Relationship between Site Symmetry, Spin State, and Doping Concentration for Co(II) or Co(III) in <sup>η</sup> 2-NaYF <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , 2016, 120, 7785-7794.	3.1	4
72	Enhancement of electromagnetic field intensity by metallic photonic crystal for efficient upconversion. , 2010, , .		3

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73	A conjugated porphyrin as a red-light sensitizer for near-infrared emission of ytterbium( $\text{Yb}^{3+}$ ) ion. <i>New Journal of Chemistry</i> , 2020, 44, 18756-18762.	2.8	3
74	$\text{Di}^{1/4}\text{-pivalato}^{3-}\text{O}^{2-}\text{O}^{2-}\text{O}^{2-}\text{O}^{2-}\text{-bis}[(\text{methanol}^{1-}\text{O})\text{bis}(2,2,6,6\text{-tetramethylheptane-3,5-dionato})\text{praseodymium(III)}]$ . <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m1514-m1515.	0.2	1
75	<i>catena</i> -Poly[1-butyl-3-methylimidazolium [[dichlorido(methanol $^{1-}$ O)(propan-2-ol $^{1-}$ O)lanthanate(III)]-di $^{1/4}$ -chlorido]]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, m292-m293.	0.2	1
76	Surface plasmon polariton enhanced upconversion in rare earth doped nano crystals on plasmonic substrates. , 2014, , .		1
77	One- and two-photon electron-transfer induced uncaging of coumarin from cinnamate-capped CdSe quantum dots. <i>Journal of Luminescence</i> , 2020, 222, 117112.	3.1	1
78	Non-Linear Density Dependent Upconversion Luminescence Enhancement of $\text{Yb}^{2+}\text{-NaYF}_4\text{: Yb}^{3+}\text{: Er}^{3+}$ Nanoparticles on Random Ag Nanowire Aggregates. <i>MRS Advances</i> , 2016, 1, 2677-2682.	0.9	0