

# Renren Deng

## List of Publications by Year in descending order

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39  
papers

9,557  
citations

257101

24  
h-index

315357

38  
g-index

43  
all docs

43  
docs citations

43  
times ranked

8843  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning upconversion through energy migration in core-shell nanoparticles. <i>Nature Materials</i> , 2011, 10, 968-973.	13.3	1,570
2	Stabilizing triplet excited states for ultralong organic phosphorescence. <i>Nature Materials</i> , 2015, 14, 685-690.	13.3	1,404
3	Intracellular Glutathione Detection Using MnO <sub>2</sub> -Nanosheet-Modified Upconversion Nanoparticles. <i>Journal of the American Chemical Society</i> , 2011, 133, 20168-20171.	6.6	845
4	Temporal full-colour tuning through non-steady-state upconversion. <i>Nature Nanotechnology</i> , 2015, 10, 237-242.	15.6	834
5	Mechanistic Investigation of Photon Upconversion in Nd <sup>3+</sup> -Sensitized Core-shell Nanoparticles. <i>Journal of the American Chemical Society</i> , 2013, 135, 12608-12611.	6.6	682
6	Enhancing multiphoton upconversion through energy clustering at sublattice level. <i>Nature Materials</i> , 2014, 13, 157-162.	13.3	528
7	Enhancing Luminescence in Lanthanide-Doped Upconversion Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11702-11715.	7.2	514
8	Preparation of core-shell NaGdF <sub>4</sub> nanoparticles doped with luminescent lanthanide ions to be used as upconversion-based probes. <i>Nature Protocols</i> , 2014, 9, 1634-1644.	5.5	501
9	In-vitro and In-vivo Uncaging and Bioluminescence Imaging by Using Photocaged Upconversion Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3125-3129.	7.2	428
10	Multicolor Barcoding in a Single Upconversion Crystal. <i>Journal of the American Chemical Society</i> , 2014, 136, 4893-4896.	6.6	348
11	Rare-Earth Doping in Nanostructured Inorganic Materials. <i>Chemical Reviews</i> , 2022, 122, 5519-5603.	23.0	338
12	Binary temporal upconversion codes of Mn <sup>2+</sup> -activated nanoparticles for multilevel anti-counterfeiting. <i>Nature Communications</i> , 2017, 8, 899.	5.8	290
13	Probing the nature of upconversion nanocrystals: instrumentation matters. <i>Chemical Society Reviews</i> , 2015, 44, 1479-1508.	18.7	176
14	X-ray-charged bright persistent luminescence in NaYF <sub>4</sub> :Ln <sup>3+</sup> @NaYF <sub>4</sub> nanoparticles for multidimensional optical information storage. <i>Light: Science and Applications</i> , 2021, 10, 132.	7.7	154
15	Lanthanide-doped inorganic nanoparticles turn molecular triplet excitons bright. <i>Nature</i> , 2020, 587, 594-599.	13.7	135
16	Photon Upconversion in Heterostructured Photoanodes for Enhanced Near-Infrared Light Harvesting. <i>Advanced Materials</i> , 2013, 25, 1603-1607.	11.1	127
17	Enabling Förster Resonance Energy Transfer from Large Nanocrystals through Energy Migration. <i>Journal of the American Chemical Society</i> , 2016, 138, 15972-15979.	6.6	102
18	Anomalous upconversion amplification induced by surface reconstruction in lanthanide sublattices. <i>Nature Photonics</i> , 2021, 15, 732-737.	15.6	77

#	ARTICLE	IF	CITATIONS
19	Nonlinear spectral and lifetime management in upconversion nanoparticles by controlling energy distribution. <i>Nanoscale</i> , 2016, 8, 6666-6673.	2.8	65
20	Tunable lifetime nanocrystals. <i>Nature Photonics</i> , 2014, 8, 10-12.	15.6	51
21	Near-infrared photosensitization via direct triplet energy transfer from lanthanide nanoparticles. <i>CheM</i> , 2021, 7, 1615-1625.	5.8	47
22	Ferric Hydroxide-Modified Upconversion Nanoparticles for 808 nm NIR-Triggered Synergetic Tumor Therapy with Hypoxia Modulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 385-393.	4.0	43
23	Single-molecule photoreaction quantitation through intraparticle-surface energy transfer (i-SET) spectroscopy. <i>Nature Communications</i> , 2020, 11, 4297.	5.8	40
24	Energy Transfer in Dye-Coupled Lanthanide-Doped Nanoparticles: From Design to Application. <i>Chemistry - an Asian Journal</i> , 2018, 13, 614-625.	1.7	24
25	A new fluorescent chemosensor detecting Zn <sup>2+</sup> and Cu <sup>2+</sup> in methanol/HEPES buffer solution. <i>Sensors and Actuators B: Chemical</i> , 2008, 135, 128-132.	4.0	21
26	Time-Gated Imaging of Latent Fingerprints with Level 3 Details Achieved by Persistent Luminescent Fluoride Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 28230-28238.	4.0	20
27	Lanthanide-doping enables kinetically controlled growth of deep-blue two-monolayer halide perovskite nanoplatelets. <i>Nanoscale</i> , 2021, 13, 11552-11560.	2.8	16
28	Near-Infrared-Light emitting diode driven white light Emission: Upconversion nanoparticles decorated Metal-Organic Frame-works thin film. <i>Chemical Engineering Journal</i> , 2021, 409, 128220.	6.6	14
29	Chain growth in control. <i>Nature Chemistry</i> , 2015, 7, 472-473.	6.6	13
30	Nonvolatile electrical control of 2D Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> and intrinsic half metallicity in multiferroic hetero-structures. <i>Nanoscale</i> , 2021, 13, 1069-1076.	2.8	13
31	Synergistic effects of lanthanide surface adhesion and photon-upconversion for enhanced near-infrared responsive photodegradation of organic contaminants in wastewater. <i>Environmental Science: Nano</i> , 2020, 7, 3333-3342.	2.2	12
32	Colorimetric anticancer drug detection by gold nanoparticle-based DNA interstrand cross-linking. <i>Analytical Methods</i> , 2013, 5, 1116.	1.3	10
33	The induction of half-metallicity and enhanced ferromagnetism in a Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> monolayer <i>via</i> electron doping and alkali metal adsorption. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5952-5960.	2.7	10
34	NIR light-triggered peroxyxynitrite anion production <i>via</i> direct lanthanide-triplet photosensitization for enhanced photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2022, 10, 4501-4508.	2.9	5
35	Inside Back Cover: In-Vitro and In-Vivo Uncaging and Bioluminescence Imaging by Using Photocaged Upconversion Nanoparticles ( <i>Angew. Chem. Int. Ed.</i> 13/2012). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3275-3275.	7.2	1
36	Mammary Leukocyte-Assisted Nanoparticle Transport Enhances Targeted Milk Trace Mineral Delivery. <i>Advanced Science</i> , 0, , 2200841.	5.6	1

#	ARTICLE	IF	CITATIONS
37	Light Harvesting: Photon Upconversion in Hetero-structured Photoanodes for Enhanced Near-Infrared Light Harvesting (Adv. Mater. 11/2013). Advanced Materials, 2013, 25, 1656-1656.	11.1	0
38	Expect the unexpected. Nature Nanotechnology, 2015, 10, 284-284.	15.6	0
39	Upconversion luminescence in Thulium-Doped NaYF <sub>4</sub> Nanoparticles Excited by a 980 nm Laser., 2018, , .		0