

Ruichan Lv

List of Publications by Year in descending order

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71
papers

3,627
citations

136885

32
h-index

128225

60
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74
all docs

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docs citations

74
times ranked

5074
citing authors

#	ARTICLE	IF	CITATIONS
1	A Yolk-like Multifunctional Platform for Multimodal Imaging and Synergistic Therapy Triggered by a Single Near-Infrared Light. <i>ACS Nano</i> , 2015, 9, 1630-1647.	7.3	319
2	Assembly of Au Plasmonic Photothermal Agent and Iron Oxide Nanoparticles on Ultrathin Black Phosphorus for Targeted Photothermal and Photodynamic Cancer Therapy. <i>Advanced Functional Materials</i> , 2017, 27, 1700371.	7.8	254
3	Integration of Upconversion Nanoparticles and Ultrathin Black Phosphorus for Efficient Photodynamic Theranostics under 808 nm Near-Infrared Light Irradiation. <i>Chemistry of Materials</i> , 2016, 28, 4724-4734.	3.2	193
4	An imaging-guided platform for synergistic photodynamic/photothermal/chemo-therapy with pH/temperature-responsive drug release. <i>Biomaterials</i> , 2015, 63, 115-127.	5.7	191
5	A New Single 808 nm NIR Light-Induced Imaging-Guided Multifunctional Cancer Therapy Platform. <i>Advanced Functional Materials</i> , 2015, 25, 3966-3976.	7.8	178
6	g-C ₃ N ₄ Coated Upconversion Nanoparticles for 808 nm Near-Infrared Light Triggered Phototherapy and Multiple Imaging. <i>Chemistry of Materials</i> , 2016, 28, 7935-7946.	3.2	163
7	<i>In Situ</i> Growth Strategy to Integrate Up-Conversion Nanoparticles with Ultrasmall CuS for Photothermal Theranostics. <i>ACS Nano</i> , 2017, 11, 1064-1072.	7.3	132
8	A Single 808 nm Near-Infrared Light-Mediated Multiple Imaging and Photodynamic Therapy Based on Titania Coupled Upconversion Nanoparticles. <i>Chemistry of Materials</i> , 2015, 27, 7957-7968.	3.2	129
9	Multifunctional Anticancer Platform for Multimodal Imaging and Visible Light Driven Photodynamic/Photothermal Therapy. <i>Chemistry of Materials</i> , 2015, 27, 1751-1763.	3.2	109
10	Hyperthermia and Controllable Free Radical Coenhanced Synergistic Therapy in Hypoxia Enabled by Near-Infrared-II Light Irradiation. <i>ACS Nano</i> , 2019, 13, 13144-13160.	7.3	109
11	Controllable Generation of Free Radicals from Multifunctional Heat-Responsive Nanoplatform for Targeted Cancer Therapy. <i>Chemistry of Materials</i> , 2018, 30, 526-539.	3.2	103
12	Hollow Structured Y ₂ O ₃ :Yb/Er@Cu _x S Nanospheres with Controllable Size for Simultaneous Chemo/Photothermal Therapy and Bioimaging. <i>Chemistry of Materials</i> , 2015, 27, 483-496.	3.2	102
13	Au ₂₅ cluster functionalized metal-organic nanostructures for magnetically targeted photodynamic/photothermal therapy triggered by single wavelength 808 nm near-infrared light. <i>Nanoscale</i> , 2015, 7, 19568-19578.	2.8	99
14	Yolk-Structured Upconversion Nanoparticles with Biodegradable Silica Shell for FRET Sensing of Drug Release and Imaging-Guided Chemotherapy. <i>Chemistry of Materials</i> , 2017, 29, 7615-7628.	3.2	92
15	A core/shell/satellite anticancer platform for 808 NIR light-driven multimodal imaging and combined chemo-/photothermal therapy. <i>Nanoscale</i> , 2015, 7, 13747-13758.	2.8	78
16	Charge convertibility and near infrared photon co-enhanced cisplatin chemotherapy based on upconversion nanoplatform. <i>Biomaterials</i> , 2017, 130, 42-55.	5.7	77
17	Bismuth Nanoparticles with Light-Property Served as a Multifunctional Probe for X-ray Computed Tomography and Fluorescence Imaging. <i>Chemistry of Materials</i> , 2018, 30, 3301-3307.	3.2	68
18	A Versatile Near Infrared Light Triggered Dual-Photosensitizer for Synchronous Bioimaging and Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12993-13008.	4.0	66

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19	Stable ICG-loaded upconversion nanoparticles: silica core/shell theranostic nanoplatfor for dual-modal upconversion and photoacoustic imaging together with photothermal therapy. <i>Scientific Reports</i> , 2017, 7, 15753.	1.6	63
20	Highly Uniform Hollow GdF ₃ Spheres: Controllable Synthesis, Tuned Luminescence, and Drug-Release Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10806-10818.	4.0	55
21	Y ₂ O ₃ :Yb,Er@mSiO ₂ â€“Cu _x S double-shelled hollow spheres for enhanced chemo-/photothermal anti-cancer therapy and dual-modal imaging. <i>Nanoscale</i> , 2015, 7, 12180-12191.	2.8	55
22	A Novel double-shelled C@NiO hollow microsphere: Synthesis and application for electrochemical capacitor. <i>Electrochimica Acta</i> , 2014, 148, 211-219.	2.6	54
23	Black Phosphorus Nanosheet with High Thermal Conversion Efficiency for Photodynamic/Photothermal/Immunotherapy. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4940-4948.	2.6	52
24	Enhanced Upconversion Luminescence-Guided Synergistic Antitumor Therapy Based on Photodynamic Therapy and Immune Checkpoint Blockade. <i>Chemistry of Materials</i> , 2020, 32, 4627-4640.	3.2	50
25	Imaging-Guided and Light-Triggered Chemo-/Photodynamic/Photothermal Therapy Based on Gd (III) Chelated Mesoporous Silica Hybrid Spheres. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 2058-2071.	2.6	46
26	Lutecium Fluoride Hollow Mesoporous Spheres with Enhanced Up-Conversion Luminescent Bioimaging and Light-Triggered Drug Release by Gold Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15550-15563.	4.0	42
27	Multifunctional SiO ₂ @Gd ₂ O ₃ :Yb/Tm Hollow Capsules: Controllable Synthesis and Drug Release Properties. <i>Inorganic Chemistry</i> , 2014, 53, 10917-10927.	1.9	41
28	Doxorubicin-conjugated CuS nanoparticles for efficient synergistic therapy triggered by near-infrared light. <i>Dalton Transactions</i> , 2016, 45, 5101-5110.	1.6	40
29	Nanochemistry advancing photon conversion in rare-earth nanostructures for theranostics. <i>Coordination Chemistry Reviews</i> , 2022, 460, 214486.	9.5	39
30	Surfactant-Free Synthesis, Luminescent Properties, and Drug-Release Properties of LaF ₃ and LaCO ₃ F Hollow Microspheres. <i>Inorganic Chemistry</i> , 2014, 53, 998-1008.	1.9	38
31	Coordination chemistry of the host matrices with dopant luminescent Ln ³⁺ ion and their impact on luminescent properties. <i>Coordination Chemistry Reviews</i> , 2022, 466, 214584.	9.5	38
32	Dopamine-mediated photothermal theranostics combined with up-conversion platform under near infrared light. <i>Scientific Reports</i> , 2017, 7, 13562.	1.6	37
33	Design, fabrication, luminescence and biomedical applications of UCNPs@mSiO ₂ â€“ZnPcâ€“CDsâ€“P(NIPAm-MAA) nanocomposites. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5883-5894.	2.9	35
34	Cuâ€“Pt(<i>iv</i>)â€“PEGâ€“FA nanoparticles for targeted photothermal and chemotherapy. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5938-5946.	2.9	30
35	LaF ₃ :Ln mesoporous spheres: controllable synthesis, tunable luminescence and application for dual-modal chemo-/photo-thermal therapy. <i>Nanoscale</i> , 2014, 6, 14799-14809.	2.8	27
36	Peptide functionalized upconversion/NIR II luminescent nanoparticles for targeted imaging and therapy of oral squamous cell carcinoma. <i>Biomaterials Science</i> , 2021, 9, 1000-1007.	2.6	27

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37	Degradable magnetic-response photoacoustic/up-conversion luminescence imaging-guided photodynamic/photothermal antitumor therapy. <i>Biomaterials Science</i> , 2019, 7, 4558-4567.	2.6	25
38	Markedly enhanced up-conversion luminescence by combining IR-808 dye sensitization and core-shell structures. <i>Dalton Transactions</i> , 2017, 46, 1495-1501.	1.6	24
39	Highly Erbium-Doped Nanoplatfrom with Enhanced Red Emission for Dual-Modal Optical-Imaging-Guided Photodynamic Therapy. <i>Inorganic Chemistry</i> , 2018, 57, 14594-14602.	1.9	23
40	Targeted Luminescent Probes for Precise Upconversion/NIR II Luminescence Diagnosis of Lung Adenocarcinoma. <i>Analytical Chemistry</i> , 2021, 93, 4984-4992.	3.2	20
41	Self-produced bubble-template synthesis of $\text{La}_2\text{O}_3\text{:Yb/Er@Au}$ hollow spheres with markedly enhanced luminescence and release properties. <i>CrystEngComm</i> , 2014, 16, 9612-9621.	1.3	17
42	Surface Plasmonic Enhanced Imaging-Guided Photothermal/Photodynamic Therapy Based on Lanthanide-Metal Nanocomposites under Single 808 nm Laser. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5051-5059.	2.6	17
43	When a Semiconductor Utilized as an NIR Laser-Responsive Photodynamic/Photothermal Theranostic Agent Integrates with Upconversion Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3100-3110.	2.6	17
44	UCNPs@gelatin-ZnPc nanocomposite: synthesis, imaging and anticancer properties. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4138-4146.	2.9	15
45	Improved Red Emission and Short-Wavelength Infrared Luminescence under 808 nm Laser for Tumor Theranostics. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4683-4691.	2.6	15
46	Degradable pH-responsive NIR-II imaging probes based on a polymer-lanthanide composite for chemotherapy. <i>Dalton Transactions</i> , 2020, 49, 9444-9453.	1.6	15
47	MET-targeted NIR II luminescence diagnosis and up-conversion guided photodynamic therapy for triple-negative breast cancer based on a lanthanide nanoprobe. <i>Nanoscale</i> , 2021, 13, 18125-18133.	2.8	15
48	Optimization of Red Luminescent Intensity in Eu^{3+} -Doped Lanthanide Phosphors Using Genetic Algorithm. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 4378-4384.	2.6	13
49	Multilevel Nanoarchitecture Exhibiting Biosensing for Cancer Diagnostics by Dual-Modal Switching of Optical and Magnetic Resonance Signals. <i>ACS Applied Bio Materials</i> , 2018, 1, 1505-1511.	2.3	13
50	Met-Targeted Dual-Modal MRI/NIR II Imaging for Specific Recognition of Head and Neck Squamous Cell Carcinoma. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1640-1650.	2.6	13
51	Up-Conversion Luminescence Properties of Lanthanide-Gold Hybrid Nanoparticles as Analyzed with Discrete Dipole Approximation. <i>Nanomaterials</i> , 2018, 8, 989.	1.9	12
52	Searching for the Optimized Luminescent Lanthanide Phosphor Using Heuristic Algorithms. <i>Inorganic Chemistry</i> , 2019, 58, 6458-6466.	1.9	12
53	NIR II Luminescence Imaging for Sentinel Lymph Node and Enhanced Chemo-/Photothermal Therapy for Breast Cancer. <i>Bioconjugate Chemistry</i> , 2021, 32, 2117-2127.	1.8	12
54	Multifunctional $\text{LaPO}_4\text{:Ce/Tb@Au}$ mesoporous microspheres: synthesis, luminescence and controllable light triggered drug release. <i>RSC Advances</i> , 2014, 4, 63425-63435.	1.7	11

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55	Lanthanide-Based Nanocomposites for Photothermal Therapy under Near-Infrared Laser: Relationship between Light and Heat, Biostability, and Reaction Temperature. <i>Langmuir</i> , 2020, 36, 4033-4043.	1.6	11
56	Optimized Multimetal Sensitized Phosphor for Enhanced Red Up-Conversion Luminescence by Machine Learning. <i>ACS Combinatorial Science</i> , 2020, 22, 285-296.	3.8	11
57	A cheap and facile route to synthesize monodisperse magnetic nanocrystals and their application as MRI agents. <i>Dalton Transactions</i> , 2015, 44, 247-253.	1.6	9
58	Mesoporous semiconductors combined with up-conversion nanoparticles for enhanced photodynamic therapy under near infrared light. <i>RSC Advances</i> , 2019, 9, 17273-17280.	1.7	9
59	Plasmonic modulated upconversion fluorescence by adjustable distributed gold nanoparticles. <i>Journal of Luminescence</i> , 2020, 220, 116974.	1.5	9
60	A Magnified Adaptive Feature Pyramid Network for automatic microaneurysms detection. <i>Computers in Biology and Medicine</i> , 2021, 139, 105000.	3.9	9
61	An optimized lanthanide-chlorophyll nanocomposite for dual-modal imaging-guided surgery navigation and anti-cancer theranostics. <i>Biomaterials Science</i> , 2020, 8, 1270-1278.	2.6	8
62	Mesoporous NaYF ₄ :Yb,Er@Au@Pt(IV)-FA nanospheres for dual-modal imaging and synergistic photothermal/chemo-anti-cancer therapy. <i>RSC Advances</i> , 2015, 5, 43391-43401.	1.7	7
63	Synthesis, luminescence, and anti-tumor properties of MgSiO ₃ :Eu-DOX-DPP-RGD hollow microspheres. <i>Dalton Transactions</i> , 2015, 44, 18585-18595.	1.6	5
64	Transferred Photothermal to Photodynamic Therapy Based on the Marriage of Ultrathin Titanium Carbide and Up-Conversion Nanoparticles. <i>Langmuir</i> , 2020, 36, 13060-13069.	1.6	5
65	Exosome-based rare earth nanoparticles for targeted <i>in situ</i> and metastatic tumor imaging with chemo-assisted immunotherapy. <i>Biomaterials Science</i> , 2022, 10, 744-752.	2.6	5
66	Early diagnosis and bioimaging of lung adenocarcinoma cells/organs based on spectroscopy machine learning. <i>Journal of Innovative Optical Health Sciences</i> , 2022, 15, .	0.5	5
67	Rare earth nanoparticles for sprayed and intravenous NIR II imaging and photodynamic therapy of tongue cancer. <i>Nanoscale Advances</i> , 2022, 4, 2224-2232.	2.2	4
68	Near-infrared light-induced imaging and targeted anti-cancer therapy based on a yolk/shell structure. <i>RSC Advances</i> , 2016, 6, 21590-21599.	1.7	3
69	Dual-molecular targeted NIR II probe with enhanced response for head and neck squamous cell carcinoma imaging. <i>Nanotechnology</i> , 2022, 33, 225101.	1.3	2
70	Gold Nanostars Combined with the Searched Antibody for Targeted Oral Squamous Cell Carcinoma Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2664-2675.	2.6	1
71	Lanthanide-semiconductor probes for precise imaging-guided phototherapy and immunotherapy. <i>Journal of Bio-X Research</i> , 2020, 3, 193-204.	0.3	0