

Jonathan F Lovell

List of Publications by Year in descending order

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125
papers

12,327
citations

38742

50
h-index

24982

109
g-index

130
all docs

130
docs citations

130
times ranked

13108
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical development and potential of photothermal and photodynamic therapies for cancer. <i>Nature Reviews Clinical Oncology</i> , 2020, 17, 657-674.	27.6	1,622
2	Activatable Photosensitizers for Imaging and Therapy. <i>Chemical Reviews</i> , 2010, 110, 2839-2857.	47.7	1,483
3	Porphysome nanovesicles generated by porphyrin bilayers for use as multimodal biophotonic contrast agents. <i>Nature Materials</i> , 2011, 10, 324-332.	27.5	1,219
4	Membrane Binding by tBid Initiates an Ordered Series of Events Culminating in Membrane Permeabilization by Bax. <i>Cell</i> , 2008, 135, 1074-1084.	28.9	511
5	Non-invasive multimodal functional imaging of the intestine with frozen micellar naphthalocyanines. <i>Nature Nanotechnology</i> , 2014, 9, 631-638.	31.5	382
6	Ablation of Hypoxic Tumors with Dose-Equivalent Photothermal, but Not Photodynamic, Therapy Using a Nanostructured Porphyrin Assembly. <i>ACS Nano</i> , 2013, 7, 2541-2550.	14.6	367
7	Chemophototherapy: An Emerging Treatment Option for Solid Tumors. <i>Advanced Science</i> , 2017, 4, 1600106.	11.2	344
8	Lipoprotein-Inspired Nanoparticles for Cancer Theranostics. <i>Accounts of Chemical Research</i> , 2011, 44, 1105-1113.	15.6	294
9	Porphyrin- ϵ -phospholipid liposomes permeabilized by near-infrared light. <i>Nature Communications</i> , 2014, 5, 3546.	12.8	282
10	Bcl-XL Inhibits Membrane Permeabilization by Competing with Bax. <i>PLoS Biology</i> , 2008, 6, e147.	5.6	266
11	Doxorubicin encapsulated in stealth liposomes conferred with light-triggered drug release. <i>Biomaterials</i> , 2016, 75, 193-202.	11.4	201
12	Advanced Functional Nanomaterials for Theranostics. <i>Advanced Functional Materials</i> , 2017, 27, 1603524.	14.9	190
13	Hexamodal Imaging with Porphyrin- ϵ -Phospholipid- ϵ -Coated Upconversion Nanoparticles. <i>Advanced Materials</i> , 2015, 27, 1785-1790.	21.0	189
14	Porphyrin Shell Microbubbles with Intrinsic Ultrasound and Photoacoustic Properties. <i>Journal of the American Chemical Society</i> , 2012, 134, 16464-16467.	13.7	171
15	Programmable Real-time Clinical Photoacoustic and Ultrasound Imaging System. <i>Scientific Reports</i> , 2016, 6, 35137.	3.3	169
16	A Phosphorus Phthalocyanine Formulation with Intense Absorbance at 1000 nm for Deep Optical Imaging. <i>Theranostics</i> , 2016, 6, 688-697.	10.0	152
17	Biomimetic Nanocarrier for Direct Cytosolic Drug Delivery. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9171-9175.	13.8	150
18	Emerging applications of porphyrins in photomedicine. <i>Frontiers in Physics</i> , 2015, 3, .	2.1	141

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19	Targeted Nanomaterials for Phototherapy. <i>Nanotheranostics</i> , 2017, 1, 38-58.	5.2	135
20	FRET Quenching of Photosensitizer Singlet Oxygen Generation. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3203-3211.	2.6	131
21	Recent Advances in Higher-Order, Multimodal, Biomedical Imaging Agents. <i>Small</i> , 2015, 11, 4445-4461.	10.0	128
22	Porphyryns as Theranostic Agents from Prehistoric to Modern Times. <i>Theranostics</i> , 2012, 2, 905-915.	10.0	126
23	HDL-Mimicking Peptide-Lipid Nanoparticles with Improved Tumor Targeting. <i>Small</i> , 2010, 6, 430-437.	10.0	122
24	Rapid Light-Triggered Drug Release in Liposomes Containing Small Amounts of Unsaturated and Porphyrin-Phospholipids. <i>Small</i> , 2016, 12, 3039-3047.	10.0	119
25	Recent applications of phthalocyanines and naphthalocyanines for imaging and therapy. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017, 9, e1420.	6.1	119
26	Self-Assembled Porphyrin Nanodiscs with Structure-Dependent Activation for Phototherapy and Photodiagnostic Applications. <i>ACS Nano</i> , 2013, 7, 3484-3490.	14.6	112
27	Functionalization of cobalt porphyrin-phospholipid bilayers with his-tagged ligands and antigens. <i>Nature Chemistry</i> , 2015, 7, 438-446.	13.6	112
28	Dual-color photoacoustic lymph node imaging using nanoformulated naphthalocyanines. <i>Biomaterials</i> , 2015, 73, 142-148.	11.4	111
29	Recent Progress in Upconversion Photodynamic Therapy. <i>Nanomaterials</i> , 2018, 8, 344.	4.1	106
30	Enzymatic Regioselection for the Synthesis and Biodegradation of Porphysome Nanovesicles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2429-2433.	13.8	104
31	Metalloporphyrin nanoparticles: Coordinating diverse theranostic functions. <i>Coordination Chemistry Reviews</i> , 2019, 379, 99-120.	18.8	103
32	Liposomal formulations of photosensitizers. <i>Biomaterials</i> , 2019, 218, 119341.	11.4	100
33	Porphyry FRET Acceptors for Apoptosis Induction and Monitoring. <i>Journal of the American Chemical Society</i> , 2011, 133, 18580-18582.	13.7	89
34	Methylene blue microbubbles as a model dual-modality contrast agent for ultrasound and activatable photoacoustic imaging. <i>Journal of Biomedical Optics</i> , 2014, 19, 016005.	2.6	87
35	Biomimetic Liposomal Nanoplatinum for Targeted Cancer Chemophototherapy. <i>Advanced Science</i> , 2021, 8, 2003679.	11.2	87
36	Surfactant-Stripped Micelles for NIR Photoacoustic Imaging through 12 cm of Breast Tissue and Whole Human Breasts. <i>Advanced Materials</i> , 2019, 31, e1902279.	21.0	86

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37	Efficient Cytosolic Delivery of siRNA Using HDL-Mimicking Nanoparticles. <i>Small</i> , 2011, 7, 568-573.	10.0	81
38	Nanobowl-Supported Liposomes Improve Drug Loading and Delivery. <i>Nano Letters</i> , 2020, 20, 4177-4187.	9.1	81
39	Porphyrim-Cross-Linked Hydrogel for Fluorescence-Guided Monitoring and Surgical Resection. <i>Biomacromolecules</i> , 2011, 12, 3115-3118.	5.4	75
40	Mechanisms of light-induced liposome permeabilization. <i>Bioengineering and Translational Medicine</i> , 2016, 1, 267-276.	7.1	75
41	Enhanced drug delivery using sonoactivatable liposomes with membrane-embedded porphyrins. <i>Journal of Controlled Release</i> , 2018, 286, 358-368.	9.9	71
42	Therapeutic surfactant-stripped frozen micelles. <i>Nature Communications</i> , 2016, 7, 11649.	12.8	68
43	Surfactant-stripped Frozen Pheophytin Micelles for Multimodal Gut Imaging. <i>Advanced Materials</i> , 2016, 28, 8524-8530.	21.0	67
44	Opportunities for Photoacoustic-Guided Drug Delivery. <i>Current Drug Targets</i> , 2015, 16, 571-581.	2.1	65
45	Intrabilayer ⁶⁴ Cu Labeling of Photoactivatable, Doxorubicin-Loaded Stealth Liposomes. <i>ACS Nano</i> , 2017, 11, 12482-12491.	14.6	62
46	A porphyrin-PEG polymer with rapid renal clearance. <i>Biomaterials</i> , 2016, 76, 25-32.	11.4	60
47	A tumor mRNA-triggered photodynamic molecular beacon based on oligonucleotide hairpin control of singlet oxygen production. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 775-781.	2.9	58
48	Deep tissue photoacoustic computed tomography with a fast and compact laser system. <i>Biomedical Optics Express</i> , 2017, 8, 112.	2.9	55
49	Pharmacokinetics and pharmacodynamics of liposomal chemophototherapy with short drug-light intervals. <i>Journal of Controlled Release</i> , 2019, 297, 39-47.	9.9	51
50	Nanomaterial engineering: shaping future nanomedicines. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015, 7, 169-188.	6.1	50
51	Sphingomyelin Liposomes Containing Porphyrin-phospholipid for Irinotecan Chemophototherapy. <i>Theranostics</i> , 2016, 6, 2329-2336.	10.0	50
52	Mechanistic Insights into LDL Nanoparticle-Mediated siRNA Delivery. <i>Bioconjugate Chemistry</i> , 2012, 23, 33-41.	3.6	49
53	Pd-Porphyrin-Cross-Linked Implantable Hydrogels with Oxygen-Responsive Phosphorescence. <i>Advanced Healthcare Materials</i> , 2014, 3, 891-896.	7.6	46
54	Multifunctional Liposomes for Image-Guided Intratumoral Chemo-Phototherapy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700253.	7.6	46

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55	Porphyrin-phospholipid liposomes with tunable leakiness. <i>Journal of Controlled Release</i> , 2015, 220, 484-494.	9.9	44
56	Current taxane formulations and emerging cabazitaxel delivery systems. <i>Nano Research</i> , 2018, 11, 5193-5218.	10.4	39
57	Surfactant-stripped naphthalocyanines for multimodal tumor theranostics with upconversion guidance cream. <i>Nanoscale</i> , 2017, 9, 3391-3398.	5.6	38
58	A Tumor Vascular-Targeted Interlocking Trimodal Nanosystem That Induces and Exploits Hypoxia. <i>Advanced Science</i> , 2018, 5, 1800034.	11.2	38
59	Slit-enabled linear-array photoacoustic tomography with near isotropic spatial resolution in three dimensions. <i>Optics Letters</i> , 2016, 41, 127.	3.3	37
60	Axial PEGylation of Tin Octabutoxy Naphthalocyanine Extends Blood Circulation for Photoacoustic Vascular Imaging. <i>Bioconjugate Chemistry</i> , 2016, 27, 1574-1578.	3.6	35
61	Metal Chelation Modulates Phototherapeutic Properties of Mitoxantrone-Loaded Porphyrin-Phospholipid Liposomes. <i>Molecular Pharmaceutics</i> , 2016, 13, 420-427.	4.6	35
62	Vessel-Targeted Chemophototherapy with Cationic Porphyrin-Phospholipid Liposomes. <i>Molecular Cancer Therapeutics</i> , 2017, 16, 2452-2461.	4.1	35
63	Coherent-weighted three-dimensional image reconstruction in linear-array-based photoacoustic tomography. <i>Biomedical Optics Express</i> , 2016, 7, 1957.	2.9	34
64	Highly-Soluble Cyanine J-aggregates Entrapped by Liposomes for <i>In Vivo</i> Optical Imaging around 930 nm. <i>Theranostics</i> , 2019, 9, 381-390.	10.0	33
65	Implantable Tin Porphyrin-PEG Hydrogels with pH-Responsive Fluorescence. <i>Biomacromolecules</i> , 2017, 18, 562-567.	5.4	32
66	Peptide Delivery Systems for Cancer Vaccines. <i>Advanced Therapeutics</i> , 2018, 1, 1800060.	3.2	30
67	Binding of an amphiphilic phthalocyanine to pre-formed liposomes confers light-triggered cargo release. <i>Journal of Materials Chemistry B</i> , 2018, 6, 7298-7305.	5.8	30
68	Indocyanine green binds to DOTAP liposomes for enhanced optical properties and tumor photoablation. <i>Biomaterials Science</i> , 2019, 7, 3158-3164.	5.4	30
69	Delivery Strategies for Melittin-Based Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17158-17173.	8.0	30
70	Facile Synthesis of Advanced Photodynamic Molecular Beacon Architectures. <i>Bioconjugate Chemistry</i> , 2010, 21, 1023-1025.	3.6	24
71	Multicolor Liposome Mixtures for Selective and Selectable Cargo Release. <i>Nano Letters</i> , 2018, 18, 1331-1336.	9.1	22
72	Naphthalocyanines as contrast agents for photoacoustic and multimodal imaging. <i>Biomedical Engineering Letters</i> , 2018, 8, 215-221.	4.1	21

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73	Investigating the specific uptake of EGF-conjugated nanoparticles in lung cancer cells using fluorescence imaging. <i>Cancer Nanotechnology</i> , 2010, 1, 71-78.	3.7	20
74	Short Drug-Light Intervals Improve Liposomal Chemophototherapy in Mice Bearing MIA PaCa-2 Xenografts. <i>Molecular Pharmaceutics</i> , 2018, 15, 3682-3689.	4.6	20
75	Traceless antibiotic-crosslinked micelles for rapid clearance of intracellular bacteria. <i>Journal of Controlled Release</i> , 2022, 341, 329-340.	9.9	20
76	Antibiotic Cross-linked Micelles with Reduced Toxicity for Multidrug-Resistant Bacterial Sepsis Treatment. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9630-9642.	8.0	19
77	ACTIVATABLE SMART PROBES FOR MOLECULAR OPTICAL IMAGING AND THERAPY. <i>Journal of Innovative Optical Health Sciences</i> , 2008, 01, 45-61.	1.0	18
78	Quantitative imaging of light-triggered doxorubicin release. <i>Biomedical Optics Express</i> , 2015, 6, 3546.	2.9	18
79	Design of Hydrated Porphyrin-Phospholipid Bilayers with Enhanced Magnetic Resonance Contrast. <i>Small</i> , 2017, 13, 1602505.	10.0	18
80	Ingestible Contrast Agents for Gastrointestinal Imaging. <i>ChemBioChem</i> , 2019, 20, 462-473.	2.6	18
81	Optically Controlled Pore Formation in Self-Sealing Giant Porphyrin Vesicles. <i>Small</i> , 2014, 10, 1184-1193.	10.0	17
82	Blood Interactions, Pharmacokinetics, and Depth-Dependent Ablation of Rat Mammary Tumors with Photoactivatable, Liposomal Doxorubicin. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 592-601.	4.1	17
83	Loading and releasing ciprofloxacin in photoactivatable liposomes. <i>Biochemical Engineering Journal</i> , 2019, 141, 43-48.	3.6	17
84	Microparticles: biogenesis, characteristics and intervention therapy for cancers in preclinical and clinical research. <i>Journal of Nanobiotechnology</i> , 2022, 20, 189.	9.1	17
85	A multifunctional biodegradable brush polymer-drug conjugate for paclitaxel/gemcitabine co-delivery and tumor imaging. <i>Nanoscale Advances</i> , 2019, 1, 2761-2771.	4.6	16
86	Surfactant-Stripped Pheophytin Micelles for Multimodal Tumor Imaging and Photodynamic Therapy. <i>ACS Applied Bio Materials</i> , 2019, 2, 544-554.	4.6	16
87	Facile formulation of a long-wavelength cyanine for optical imaging in the second near-infrared window. <i>Biomaterials Science</i> , 2020, 8, 4199-4205.	5.4	16
88	Targeted Micellar Phthalocyanine for Lymph Node Metastasis Homing and Photothermal Therapy in an Orthotopic Colorectal Tumor Model. <i>Nano-Micro Letters</i> , 2021, 13, 145.	27.0	14
89	Programmed Nanoparticle Aggregation Using Molecular Beacons. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7917-7919.	13.8	13
90	Ingestible roasted barley for contrast-enhanced photoacoustic imaging in animal and human subjects. <i>Biomaterials</i> , 2018, 175, 72-81.	11.4	13

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91	An Engineered Biomimetic MPER Peptide Vaccine Induces Weakly HIV Neutralizing Antibodies in Mice. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1991-2001.	2.5	13
92	A dual-channel endoscope for quantitative imaging, monitoring, and triggering of doxorubicin release from liposomes in living mice. <i>Scientific Reports</i> , 2017, 7, 15578.	3.3	12
93	Surfactant-Stripped Micelles with Aggregation-Induced Enhanced Emission for Bimodal Gut Imaging In Vivo and Microbiota Tagging Ex Vivo. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100356.	7.6	12
94	A quenched binuclear ruthenium(^{II}) dimer activated by another photosensitizer. <i>Chemical Communications</i> , 2014, 50, 3231-3233.	4.1	11
95	Relieving immunosuppression during long-term anti-angiogenesis therapy using photodynamic therapy and oxygen delivery. <i>Nanoscale</i> , 2020, 12, 14788-14800.	5.6	11
96	One Minute, Sub-One-Watt Photothermal Tumor Ablation Using Porphysomes, Intrinsic Multifunctional Nanovesicles. <i>Journal of Visualized Experiments</i> , 2013, , e50536.	0.3	10
97	^{99m} Tc-labeled porphyrin-lipid nanovesicles. <i>Journal of Liposome Research</i> , 2015, 25, 101-106.	3.3	10
98	Detection of Sunlight Exposure with Solar-Sensitive Liposomes that Capture and Release Food Dyes. <i>ACS Applied Nano Materials</i> , 2018, 1, 2739-2747.	5.0	9
99	Sound Out the Deep Colors: Photoacoustic Molecular Imaging at New Depths. <i>Molecular Imaging</i> , 2020, 19, 153601212098151.	1.4	9
100	Single-treatment tumor ablation with photodynamic liposomal irinotecan sucrosulfate. <i>Translational Oncology</i> , 2022, 19, 101390.	3.7	9
101	Organic Fluorescent Probes for Diagnostics and Bio-Imaging. <i>Topics in Medicinal Chemistry</i> , 2019, , 33-53.	0.8	8
102	Anti-cancer liposomal chemophototherapy using bilayer-localized photosensitizer and cabazitaxel. <i>Nano Research</i> , 2022, 15, 4302-4309.	10.4	8
103	Bimodal Targeting Using Sulfonated, Mannosylated ⁺ PEI for Combined Gene Delivery and Photodynamic Therapy. <i>Photochemistry and Photobiology</i> , 2017, 93, 600-608.	2.5	7
104	Surfactant-Stripped Cabazitaxel Micelles Stabilized by Clotrimazole or Mifepristone. <i>Advanced Therapeutics</i> , 2020, 3, 1900161.	3.2	7
105	Synthesis and Development of Lipoprotein-Based Nanocarriers for Light-Activated Theranostics. <i>Israel Journal of Chemistry</i> , 2012, 52, 715-727.	2.3	6
106	Reversible Micro- and Nano- Phase Programming of Anthraquinone Thermochromism Using Blended Block Copolymers. <i>Langmuir</i> , 2015, 31, 13488-13493.	3.5	6
107	Assessing Photosensitizer Targeting Using Meso-Tetra(Carboxyphenyl) Porphyrin. <i>Molecules</i> , 2018, 23, 892.	3.8	6
108	Trans-illumination intestine projection imaging of intestinal motility in mice. <i>Nature Communications</i> , 2021, 12, 1682.	12.8	6

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109	Anticancer Vaccination with Immunogenic Micelles That Capture and Release Pristine CD8 ⁺ T-Cell Epitopes and Adjuvants. ACS Applied Materials & Interfaces, 2022, 14, 2510-2521.	8.0	5
110	A Porphodimethene Chemical Inhibitor of Uroporphyrinogen Decarboxylase. PLoS ONE, 2014, 9, e89889.	2.5	4
111	Thinking outside the macrocycle: Potential biomedical roles for nanostructured porphyrins and phthalocyanines – a SPP/JPP Young Investigator Award paper. Journal of Porphyrins and Phthalocyanines, 2020, 24, 1272-1277.	0.8	3
112	Cross-linked Histone as a Nanocarrier for Gut Delivery of Hydrophobic Cargos. ACS Applied Materials & Interfaces, 2021, 13, 26712-26720.	8.0	3
113	Two Laser Treatments Can Improve Tumor Ablation Efficiency of Chemophototherapy. Pharmaceutics, 2021, 13, 2183.	4.5	3
114	Porphyrin and Phthalocyanine Radiolabeling. Biological and Medical Physics Series, 2018, , 49-78.	0.4	2
115	Labeling of Erythrocytes by Porphyrin-Phospholipid. Advanced NanoBiomed Research, 2021, 1, 2000013.	3.6	2
116	Deep-tissue photoacoustic imaging at 1064 nm using a contrast agent based on phosphorus phthalocyanine formulation. Proceedings of SPIE, 2017, , .	0.8	1
117	Clinical real-time photoacoustic/ultrasound imaging system at POSTECH. , 2016, , .		0
118	Optically Controlled Opening of Self-Sealing Giant Unilamellar Vesicles. , 2012, , .		0
119	Porphysomes: Intrinsically Multifunctional Nanovesicles for Photothermal Therapy. , 2012, , .		0
120	Porphysomes: Multifunctional Nanovesicles to Treat Hypoxic Tumour by Photothermal Therapy. , 2012, , .		0
121	Opportunities for New Photodynamic Molecular Beacon Designs. , 2014, , 733-758.		0
122	In Vivo Volumetric Photoacoustic Images of Gastrointestinal Tracts in Rats using Clinical Photoacoustic/Ultrasound Imaging System. , 2016, , .		0
123	12 Theranostic applications of photodynamic molecular beacons. Series in Cellular and Clinical Imaging, 2017, , 249-258.	0.2	0
124	Slit-enabled linear-array photoacoustic tomography with near isotropic spatial resolution in three dimensions. Proceedings of SPIE, 2017, , .	0.8	0
125	Three-dimensional photoacoustic tomography through coherent-weighted focal-line-based image reconstruction. Proceedings of SPIE, 2017, , .	0.8	0