

# Jonathan P Celli

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

4,515  
citations

257101

24  
h-index

288905

40  
g-index

50  
all docs

50  
docs citations

50  
times ranked

6853  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photodynamic stromal depletion (PSD) improves tumor response to PDT and enhances nanoparticle drug delivery in 3D co-culture models of pancreatic ductal adenocarcinoma (PDAC). , 2022, , .		0
2	Clinical evaluation of a mobile, low-cost system for fluorescence guided photodynamic therapy of early oral cancer in India. Photodiagnosis and Photodynamic Therapy, 2022, 38, 102843.	1.3	12
3	Image-Based Quantification of Gold Nanoparticle Uptake and Localization in 3D Tumor Models to Inform Radiosensitization Schedule. Pharmaceutics, 2022, 14, 667.	2.0	2
4	Laser light sources for photobiomodulation: The role of power and beam characterization in treatment accuracy and reliability. PLoS ONE, 2022, 17, e0266193.	1.1	3
5	Plasmonic Nanoparticles for Enhancement of Image-Guided Phototherapy. , 2022, , 181-204.		0
6	A Review of Microbial Mediated Iron Nanoparticles (IONPs) and Its Biomedical Applications. Nanomaterials, 2022, 12, 130.	1.9	23
7	Photodestruction of Stromal Fibroblasts Enhances Tumor Response to PDT in 3D Pancreatic Cancer Coculture Models. Photochemistry and Photobiology, 2021, 97, 416-426.	1.3	13
8	Photodynamic Therapy for Pancreatic Ductal Adenocarcinoma. Cancers, 2021, 13, 4354.	1.7	18
9	Photodynamic Therapy and the Biophysics of the Tumor Microenvironment. Photochemistry and Photobiology, 2020, 96, 232-259.	1.3	55
10	Modulation of Extracellular Matrix Rigidity Via Riboflavinâ€mediated Photocrosslinking Regulates Invasive Motility and Treatment Response in a 3D Pancreatic Tumor Model. Photochemistry and Photobiology, 2020, 96, 365-372.	1.3	15
11	Flow-induced Shear Stress Confers Resistance to Carboplatin in an Adherent Three-Dimensional Model for Ovarian Cancer: A Role for EGFR-Targeted Photoimmunotherapy Informed by Physical Stress. Journal of Clinical Medicine, 2020, 9, 924.	1.0	31
12	Clinical evaluation of smartphone-based fluorescence imaging for guidance and monitoring of ALA-PDT treatment of early oral cancer. Journal of Biomedical Optics, 2020, 25, 1.	1.4	19
13	Special Section Guest Editorial: Photodynamic Therapy. Journal of Biomedical Optics, 2020, 25, 1.	1.4	0
14	Stochastic modeling of phenotypic switching and chemoresistance in cancer cell populations. Scientific Reports, 2019, 9, 10845.	1.6	18
15	Photodynamic Therapy of Oral Cavity Tumors in Low Resource Settings: Technology Development, Feasibility and Evaluation in Patients. , 2019, , .		1
16	Platform for ergonomic intraoral photodynamic therapy using low-cost, modular 3D-printed components: Design, comfort and clinical evaluation. Scientific Reports, 2019, 9, 15830.	1.6	10
17	Development and evaluation of a lowâ€cost, portable, LEDâ€based device for PDT treatment of earlyâ€stage oral cancer in resourceâ€limited settings. Lasers in Surgery and Medicine, 2019, 51, 345-351.	1.1	35
18	Flexible quantum dot lightâ€emitting devices for targeted photomedical applications. Journal of the Society for Information Display, 2018, 26, 296-303.	0.8	28

#	ARTICLE	IF	CITATIONS
19	22&#3: <i>Distinguished Student Paper:</i> Flexible Quantum Dot Light Emitting Devices for Photomedicine. Digest of Technical Papers SID International Symposium, 2018, 49, 275-278.	0.1	1
20	Neoadjuvant photodynamic therapy augments immediate and prolonged oxaliplatin efficacy in metastatic pancreatic cancer organoids. Oncotarget, 2018, 9, 13009-13022.	0.8	35
21	Cellular pH and PI3K signaling as determinants of Protoporphyrin IX conversion and ALA PDT response. , 2018, , .		0
22	Quantum dot light emitting devices for photomedical applications. Journal of the Society for Information Display, 2017, 25, 177-184.	0.8	34
23	68&#2: <i>Distinguished Student Paper</i>: Quantum Dot Light Emitting Devices (QLEDs) for Photomedical Applications. Digest of Technical Papers SID International Symposium, 2017, 48, 1001-1003.	0.1	0
24	ECM Composition and Rheology Regulate Growth, Motility, and Response to Photodynamic Therapy in 3D Models of Pancreatic Ductal Adenocarcinoma. Molecular Cancer Research, 2017, 15, 15-25.	1.5	34
25	Embedded system for a battery-operated LED-based photodynamic therapy device for treatment of early-stage oral cancers in resource-limited settings. , 2017, , .		4
26	<i>In situ</i> measurement of ECM rheology and microheterogeneity in embedded and overlaid 3D pancreatic tumor stroma co-cultures via passive particle tracking. Journal of Innovative Optical Health Sciences, 2017, 10, 1742003.	0.5	6
27	Cancer Biophysics. , 2017, , .		2
28	3D Cancer Models on Hydrogels. , 2016, , 207-256.		1
29	Development of low-cost devices for image-guided photodynamic therapy treatment of oral cancer in global health settings. Proceedings of SPIE, 2016, , .	0.8	2
30	<i>In vivo</i> evaluation of battery-operated light-emitting diode-based photodynamic therapy efficacy using tumor volume and biomarker expression as endpoints. Journal of Biomedical Optics, 2015, 20, 048003.	1.4	21
31	Low-cost photodynamic therapy devices for global health settings: Characterization of battery-powered LED performance and smartphone imaging in 3D tumor models. Scientific Reports, 2015, 5, 10093.	1.6	69
32	Longitudinal Measurement of Extracellular Matrix Rigidity in 3D Tumor Models Using Particle-tracking Microrheology. Journal of Visualized Experiments, 2014, , .	0.2	11
33	An imaging-based platform for high-content, quantitative evaluation of therapeutic response in 3D tumour models. Scientific Reports, 2014, 4, 3751.	1.6	117
34	Impact of treatment response metrics on photodynamic therapy planning and outcomes in a three-dimensional model of ovarian cancer. Journal of Biomedical Optics, 2013, 18, 098004.	1.4	37
35	The Influence of Mucus Microstructure and Rheology in Helicobacter pylori Infection. Frontiers in Immunology, 2013, 4, 310.	2.2	97
36	Flow induces epithelial-mesenchymal transition, cellular heterogeneity and biomarker modulation in 3D ovarian cancer nodules. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1974-83.	3.3	184

#	ARTICLE	IF	CITATIONS
37	Image-Based Quantification of Benzoporphyrin Derivative Uptake, Localization, and Photobleaching in 3D Tumor Models, for Optimization of PDT Parameters. <i>Theranostics</i> , 2012, 2, 827-839.	4.6	54
38	Stromal Interactions as Regulators of Tumor Growth and Therapeutic Response: A Potential Target for Photodynamic Therapy?. <i>Israel Journal of Chemistry</i> , 2012, 52, 757-766.	1.0	19
39	Killing Hypoxic Cell Populations in a 3D Tumor Model with EtNBS-PDT. <i>PLoS ONE</i> , 2011, 6, e23434.	1.1	79
40	A three-dimensional in vitro ovarian cancer coculture model using a high-throughput cell patterning platform. <i>Biotechnology Journal</i> , 2011, 6, 204-212.	1.8	281
41	Verteporfin-based photodynamic therapy overcomes gemcitabine insensitivity in a panel of pancreatic cancer cell lines. <i>Lasers in Surgery and Medicine</i> , 2011, 43, 565-574.	1.1	96
42	Imaging and Photodynamic Therapy: Mechanisms, Monitoring, and Optimization. <i>Chemical Reviews</i> , 2010, 110, 2795-2838.	23.0	2,005
43	Quantitative imaging reveals heterogeneous growth dynamics and treatment-dependent residual tumor distributions in a three-dimensional ovarian cancer model. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	1.4	70
44	Synergistic Enhancement of Carboplatin Efficacy with Photodynamic Therapy in a Three-Dimensional Model for Micrometastatic Ovarian Cancer. <i>Cancer Research</i> , 2010, 70, 9319-9328.	0.4	159
45	Ki-67 as a Molecular Target for Therapy in an <i>In vitro</i> Three-Dimensional Model for Ovarian Cancer. <i>Cancer Research</i> , 2010, 70, 9234-9242.	0.4	72
46	<i>Helicobacter pylori</i> moves through mucus by reducing mucin viscoelasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14321-14326.	3.3	347
47	PuraMatrix Encapsulation of Cancer Cells. <i>Journal of Visualized Experiments</i> , 2009, , .	0.2	24
48	Rheology of Gastric Mucin Exhibits a pH-Dependent Sol-Gel Transition. <i>Biomacromolecules</i> , 2007, 8, 1580-1586.	2.6	250
49	Viscoelastic Properties and Dynamics of Porcine Gastric Mucin. <i>Biomacromolecules</i> , 2005, 6, 1329-1333.	2.6	117
50	Photodynamic Stromal Depletion ( PSD ) Enhances Therapeutic Nanoparticle Delivery in 3D Pancreatic Ductal Adenocarcinoma ( PDAC ) Tumor Models. <i>Photochemistry and Photobiology</i> , 0, , .	1.3	4