

# 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	Imaging and Photodynamic Therapy: Mechanisms, Monitoring, and Optimization. <i>Chemical Reviews</i> , 2010, 110, 2795-2838.	23.0	2,005
2	<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
3	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
4	Rheology of Gastric Mucin Exhibits a pH-Dependent Sol-Gel Transition. <i>Biomacromolecules</i> , 2007, 8, 1580-1586.	2.6	250
5	Flow induces epithelial-mesenchymal transition, cellular heterogeneity and biomarker modulation in 3D ovarian cancer nodules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1974-83.	3.3	184
6	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
7	Viscoelastic Properties and Dynamics of Porcine Gastric Mucin. <i>Biomacromolecules</i> , 2005, 6, 1329-1333.	2.6	117
8	An imaging-based platform for high-content, quantitative evaluation of therapeutic response in 3D tumour models. <i>Scientific Reports</i> , 2014, 4, 3751.	1.6	117
9	The Influence of Mucus Microstructure and Rheology in <i>Helicobacter pylori</i> Infection. <i>Frontiers in Immunology</i> , 2013, 4, 310.	2.2	97
10	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
11	Killing Hypoxic Cell Populations in a 3D Tumor Model with EtNBS-PDT. <i>PLoS ONE</i> , 2011, 6, e23434.	1.1	79
12	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
13	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
14	Low-cost photodynamic therapy devices for global health settings: Characterization of battery-powered LED performance and smartphone imaging in 3D tumor models. <i>Scientific Reports</i> , 2015, 5, 10093.	1.6	69
15	Photodynamic Therapy and the Biophysics of the Tumor Microenvironment. <i>Photochemistry and Photobiology</i> , 2020, 96, 232-259.	1.3	55
16	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
17	Impact of treatment response metrics on photodynamic therapy planning and outcomes in a three-dimensional model of ovarian cancer. <i>Journal of Biomedical Optics</i> , 2013, 18, 098004.	1.4	37
18	Development and evaluation of a low-cost, portable, LED-based device for PDT treatment of early-stage oral cancer in resource-limited settings. <i>Lasers in Surgery and Medicine</i> , 2019, 51, 345-351.	1.1	35

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19	Neoadjuvant photodynamic therapy augments immediate and prolonged oxaliplatin efficacy in metastatic pancreatic cancer organoids. <i>Oncotarget</i> , 2018, 9, 13009-13022.	0.8	35
20	Quantum dot light emitting devices for photomedical applications. <i>Journal of the Society for Information Display</i> , 2017, 25, 177-184.	0.8	34
21	ECM Composition and Rheology Regulate Growth, Motility, and Response to Photodynamic Therapy in 3D Models of Pancreatic Ductal Adenocarcinoma. <i>Molecular Cancer Research</i> , 2017, 15, 15-25.	1.5	34
22	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. <i>Journal of Clinical Medicine</i> , 2020, 9, 924.	1.0	31
23	Flexible quantum dot light-emitting devices for targeted photomedical applications. <i>Journal of the Society for Information Display</i> , 2018, 26, 296-303.	0.8	28
24	PuraMatrix Encapsulation of Cancer Cells. <i>Journal of Visualized Experiments</i> , 2009, , .	0.2	24
25	A Review of Microbial Mediated Iron Nanoparticles (IONPs) and Its Biomedical Applications. <i>Nanomaterials</i> , 2022, 12, 130.	1.9	23
26	<i>In vivo</i> evaluation of battery-operated light-emitting diode-based photodynamic therapy efficacy using tumor volume and biomarker expression as endpoints. <i>Journal of Biomedical Optics</i> , 2015, 20, 048003.	1.4	21
27	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
28	Clinical evaluation of smartphone-based fluorescence imaging for guidance and monitoring of ALA-PDT treatment of early oral cancer. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	19
29	Stochastic modeling of phenotypic switching and chemoresistance in cancer cell populations. <i>Scientific Reports</i> , 2019, 9, 10845.	1.6	18
30	Photodynamic Therapy for Pancreatic Ductal Adenocarcinoma. <i>Cancers</i> , 2021, 13, 4354.	1.7	18
31	Modulation of Extracellular Matrix Rigidity Via Riboflavin-mediated Photocrosslinking Regulates Invasive Motility and Treatment Response in a 3D Pancreatic Tumor Model. <i>Photochemistry and Photobiology</i> , 2020, 96, 365-372.	1.3	15
32	Photodestruction of Stromal Fibroblasts Enhances Tumor Response to PDT in 3D Pancreatic Cancer Coculture Models. <i>Photochemistry and Photobiology</i> , 2021, 97, 416-426.	1.3	13
33	Clinical evaluation of a mobile, low-cost system for fluorescence guided photodynamic therapy of early oral cancer in India. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022, 38, 102843.	1.3	12
34	Longitudinal Measurement of Extracellular Matrix Rigidity in 3D Tumor Models Using Particle-tracking Microrheology. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	11
35	Platform for ergonomic intraoral photodynamic therapy using low-cost, modular 3D-printed components: Design, comfort and clinical evaluation. <i>Scientific Reports</i> , 2019, 9, 15830.	1.6	10
36	<i>In situ</i> measurement of ECM rheology and microheterogeneity in embedded and overlaid 3D pancreatic tumor stroma co-cultures via passive particle tracking. <i>Journal of Innovative Optical Health Sciences</i> , 2017, 10, 1742003.	0.5	6

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37	Embedded system for a battery-operated LED-based photodynamic therapy device for treatment of early-stage oral cancers in resource-limited settings. , 2017, , .		4
38	Photodynamic Stromal Depletion ( <scp>PSD</scp> ) Enhances Therapeutic Nanoparticle Delivery in <scp>3D</scp> Pancreatic Ductal Adenocarcinoma ( <scp>PDAC</scp> ) Tumor Models. Photochemistry and Photobiology, 0, , .	1.3	4
39	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
40	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
41	Cancer Biophysics. , 2017, , .		2
42	Image-Based Quantification of Gold Nanoparticle Uptake and Localization in 3D Tumor Models to Inform Radiosensitization Schedule. Pharmaceutics, 2022, 14, 667.	2.0	2
43	3D Cancer Models on Hydrogels. , 2016, , 207-256.		1
44	22â€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
45	Photodynamic Therapy of Oral Cavity Tumors in Low Resource Settings: Technology Development, Feasibility and Evaluation in Patients. , 2019, , .		1
46	68â€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
47	Cellular pH and PI3K signaling as determinants of Protoporphyrin IX conversion and ALA PDT response. , 2018, , .		0
48	Special Section Guest Editorial: Photodynamic Therapy. Journal of Biomedical Optics, 2020, 25, 1.	1.4	0
49	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
50	Plasmonic Nanoparticles for Enhancement of Image-Guided Phototherapy. , 2022, , 181-204.		0