

Assoc prof Jesse V Jokerst

List of Publications by Citations

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127
papers

8,530
citations

39
h-index

92
g-index

152
ext. papers

10,078
ext. citations

9.9
avg, IF

6.58
L-index

#	Paper	IF	Citations
127	Nanoparticle PEGylation for imaging and therapy. <i>Nanomedicine</i> , 2011 , 6, 715-28	5.6	1433
126	Semiconducting polymer nanoparticles as photoacoustic molecular imaging probes in living mice. <i>Nature Nanotechnology</i> , 2014 , 9, 233-9	28.7	898
125	A brain tumor molecular imaging strategy using a new triple-modality MRI-photoacoustic-Raman nanoparticle. <i>Nature Medicine</i> , 2012 , 18, 829-34	50.5	847
124	Molecular afterglow imaging with bright, biodegradable polymer nanoparticles. <i>Nature Biotechnology</i> , 2017 , 35, 1102-1110	44.5	571
123	Molecular imaging with theranostic nanoparticles. <i>Accounts of Chemical Research</i> , 2011 , 44, 1050-60	24.3	401
122	Gold nanorods for ovarian cancer detection with photoacoustic imaging and resection guidance via Raman imaging in living mice. <i>ACS Nano</i> , 2012 , 6, 10366-77	16.7	306
121	Photoacoustic imaging of mesenchymal stem cells in living mice via silica-coated gold nanorods. <i>ACS Nano</i> , 2012 , 6, 5920-30	16.7	266
120	Diketopyrrolopyrrole-Based Semiconducting Polymer Nanoparticles for In Vivo Photoacoustic Imaging. <i>Advanced Materials</i> , 2015 , 27, 5184-90	24	256
119	Nano-bio-chips for high performance multiplexed protein detection: determinations of cancer biomarkers in serum and saliva using quantum dot bioconjugate labels. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 3622-9	11.8	206
118	The Exosome Total Isolation Chip. <i>ACS Nano</i> , 2017 , 11, 10712-10723	16.7	173
117	A Gold/Silver Hybrid Nanoparticle for Treatment and Photoacoustic Imaging of Bacterial Infection. <i>ACS Nano</i> , 2018 , 12, 5615-5625	16.7	149
116	Theranostic mesoporous silica nanoparticles biodegrade after pro-survival drug delivery and ultrasound/magnetic resonance imaging of stem cells. <i>Theranostics</i> , 2015 , 5, 631-42	12.1	146
115	Construction and validation of nano gold tripods for molecular imaging of living subjects. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3560-71	16.4	144
114	A small animal Raman instrument for rapid, wide-area, spectroscopic imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12408-13	11.5	133
113	Clinically Approved Nanoparticle Imaging Agents. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 1833-1837	8.9	129
112	Multifunctional nanomedicine with silica: Role of silica in nanoparticles for theranostic, imaging, and drug monitoring. <i>Journal of Colloid and Interface Science</i> , 2018 , 521, 261-279	9.3	114
111	Affibody-functionalized gold-silica nanoparticles for Raman molecular imaging of the epidermal growth factor receptor. <i>Small</i> , 2011 , 7, 625-33	11	107

110	The characterization of an economic and portable LED-based photoacoustic imaging system to facilitate molecular imaging. <i>Photoacoustics</i> , 2018 , 9, 10-20	9	103
109	Photoacoustic Imaging of Human Mesenchymal Stem Cells Labeled with Prussian Blue-Poly(L-lysine) Nanocomplexes. <i>ACS Nano</i> , 2017 , 11, 9022-9032	16.7	84
108	Strategies for Image-Guided Therapy, Surgery, and Drug Delivery Using Photoacoustic Imaging. <i>Theranostics</i> , 2019 , 9, 1550-1571	12.1	77
107	Intracellular aggregation of multimodal silica nanoparticles for ultrasound-guided stem cell implantation. <i>Science Translational Medicine</i> , 2013 , 5, 177ra35	17.5	77
106	Exosome-like silica nanoparticles: a novel ultrasound contrast agent for stem cell imaging. <i>Nanoscale</i> , 2017 , 9, 402-411	7.7	71
105	What is new in nanoparticle-based photoacoustic imaging?. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2017 , 9, e1404	9.2	69
104	Engineering Plasmonic Nanoparticles for Enhanced Photoacoustic Imaging. <i>ACS Nano</i> , 2020 , 14, 9408-9422	22.7	69
103	Enhanced Performance of a Molecular Photoacoustic Imaging Agent by Encapsulation in Mesoporous Silicon Nanoparticles. <i>Advanced Materials</i> , 2018 , 30, e1800512	24	67
102	Organosilica Nanoparticles with an Intrinsic Secondary Amine: An Efficient and Reusable Adsorbent for Dyes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15566-15576	9.5	60
101	Integration of semiconductor quantum dots into nano-bio-chip systems for enumeration of CD4+ T cell counts at the point-of-need. <i>Lab on A Chip</i> , 2008 , 8, 2079-90	7.2	58
100	Phenolic-enabled nanotechnology: versatile particle engineering for biomedicine. <i>Chemical Society Reviews</i> , 2021 , 50, 4432-4483	58.5	58
99	Photoacoustic Tomography Detects Early Vessel Regression and Normalization During Ovarian Tumor Response to the Antiangiogenic Therapy Trebananib. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 1942-7	8.9	57
98	Programmable nano-bio-chip sensors: analytical meets clinical. <i>Analytical Chemistry</i> , 2010 , 82, 1571-9	7.8	55
97	A Nanoscale Tool for Photoacoustic-Based Measurements of Clotting Time and Therapeutic Drug Monitoring of Heparin. <i>Nano Letters</i> , 2016 , 16, 6265-6271	11.5	54
96	Location of biomarkers and reagents within agarose beads of a programmable bio-nano-chip. <i>Small</i> , 2011 , 7, 613-24	11	53
95	Development of a Trimodal Contrast Agent for Acoustic and Magnetic Particle Imaging of Stem Cells. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1321-1331	5.6	51
94	Parts per billion detection of uranium with a porphyrinoid-containing nanoparticle and in vivo photoacoustic imaging. <i>Analyst, The</i> , 2015 , 140, 3731-7	5	50
93	Sol-gel synthesis and electrospinning of biodegradable (P2O5)55-(CaO)30-(Na2O)15 glass nanospheres as a transient contrast agent for ultrasound stem cell imaging. <i>ACS Nano</i> , 2015 , 9, 1868-1877	16.7	50

92	Simultaneous Enhancement of Photoluminescence, MRI Relaxivity, and CT Contrast by Tuning the Interfacial Layer of Lanthanide Heteroepitaxial Nanoparticles. <i>Nano Letters</i> , 2017 , 17, 4873-4880	11.5	49
91	Gadolinium Doping Enhances the Photoacoustic Signal of Synthetic Melanin Nanoparticles: A Dual Modality Contrast Agent for Stem Cell Imaging. <i>Chemistry of Materials</i> , 2019 , 31, 251-259	9.6	48
90	Photoacoustic Imaging Quantifies Drug Release from Nanocarriers via Redox Chemistry of Dye-Labeled Cargo. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 4678-4683	16.4	45
89	Cellulose Nanoparticles are a Biodegradable Photoacoustic Contrast Agent for Use in Living Mice. <i>Photoacoustics</i> , 2014 , 2, 119-127	9	39
88	Deep learning improves contrast in low-fluence photoacoustic imaging. <i>Biomedical Optics Express</i> , 2020 , 11, 3360-3373	3.5	37
87	Programmable nano-bio-chips: multifunctional clinical tools for use at the point-of-care. <i>Nanomedicine</i> , 2010 , 5, 143-55	5.6	36
86	Stem Cell Imaging: Tools to Improve Cell Delivery and Viability. <i>Stem Cells International</i> , 2016 , 2016, 9240652	3.5	33
85	The double-stage delay-multiply-and-sum image reconstruction method improves imaging quality in a LED-based photoacoustic array scanner. <i>Photoacoustics</i> , 2018 , 12, 22-29	9	32
84	KN95 and N95 Respirators Retain Filtration Efficiency despite a Loss of Dipole Charge during Decontamination. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54473-54480	9.5	31
83	Increasing the Efficacy of Stem Cell Therapy via Triple-Function Inorganic Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 6605-6617	16.7	29
82	Iodide-doped precious metal nanoparticles: measuring oxidative stress in vivo via photoacoustic imaging. <i>Nanoscale</i> , 2020 , 12, 10511-10520	7.7	29
81	Switchable Photoacoustic Intensity of Methylene Blue via Sodium Dodecyl Sulfate Micellization. <i>Langmuir</i> , 2018 , 34, 359-365	4	28
80	In vivo photoacoustic imaging of chorioretinal oxygen gradients. <i>Journal of Biomedical Optics</i> , 2018 , 23, 1-8	3.5	28
79	A Mechanistic Investigation of Methylene Blue and Heparin Interactions and Their Photoacoustic Enhancement. <i>Bioconjugate Chemistry</i> , 2018 , 29, 3768-3775	6.3	23
78	A correlative optical microscopy and scanning electron microscopy approach to locating nanoparticles in brain tumors. <i>Micron</i> , 2015 , 68, 70-76	2.3	22
77	Listening for the therapeutic window: Advances in drug delivery utilizing photoacoustic imaging. <i>Advanced Drug Delivery Reviews</i> , 2019 , 144, 78-89	18.5	22
76	Comparison of Deconvolution Filters for Photoacoustic Tomography. <i>PLoS ONE</i> , 2016 , 11, e0152597	3.7	22
75	Photoacoustic imaging with fiber optic technology: A review. <i>Photoacoustics</i> , 2020 , 20, 100211	9	22

74	A cellulose-based photoacoustic sensor to measure heparin concentration and activity in human blood samples. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 831-837	11.8	22
73	Photoacoustic imaging for monitoring periodontal health: A first human study. <i>Photoacoustics</i> , 2018 , 12, 67-74	9	21
72	Etiology and Measurement of Peri-Implant Crestal Bone Loss (CBL). <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	20
71	Structured micro/nano materials synthesized via electrospray: a review. <i>Biomaterials Science</i> , 2020 , 8, 5555-5573	7.4	19
70	The development and characterization of a novel yet simple 3D printed tool to facilitate phantom imaging of photoacoustic contrast agents. <i>Photoacoustics</i> , 2017 , 5, 17-24	9	18
69	Noninvasive staging of pressure ulcers using photoacoustic imaging. <i>Wound Repair and Regeneration</i> , 2019 , 27, 488-496	3.6	18
68	Cellular toxicity of silicon carbide nanomaterials as a function of morphology. <i>Biomaterials</i> , 2018 , 179, 60-70	15.6	18
67	Activatable Carbocyanine Dimers for Photoacoustic and Fluorescent Detection of Protease Activity. <i>ACS Sensors</i> , 2021 , 6, 2356-2365	9.2	17
66	Synthesis of Ultrasmall Synthetic Melanin Nanoparticles by UV Irradiation in Acidic and Neutral Conditions. <i>ACS Applied Bio Materials</i> , 2019 , 2, 4667-4674	4.1	16
65	Molecular imaging of oxidative stress using an LED-based photoacoustic imaging system. <i>Scientific Reports</i> , 2019 , 9, 11378	4.9	16
64	A Wearable Colorimetric Dosimeter to Monitor Sunlight Exposure. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800037	6.8	15
63	GPU-accelerated Double-stage Delay-multiply-and-sum Algorithm for Fast Photoacoustic Tomography Using LED Excitation and Linear Arrays. <i>Ultrasonic Imaging</i> , 2019 , 41, 301-316	1.9	15
62	Dictionary learning technique enhances signal in LED-based photoacoustic imaging. <i>Biomedical Optics Express</i> , 2020 , 11, 2533-2547	3.5	15
61	Gold Nanorod-Melanin Hybrids for Enhanced and Prolonged Photoacoustic Imaging in the Near-Infrared-II Window. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14974-14984	9.5	15
60	Gold nanoparticles to enhance ophthalmic imaging. <i>Biomaterials Science</i> , 2021 , 9, 367-390	7.4	15
59	Circulating Biomarkers to Identify Responders in Cardiac Cell therapy. <i>Scientific Reports</i> , 2017 , 7, 4419	4.9	14
58	Silicon Carbide Nanoparticles as a Photoacoustic and Photoluminescent Dual-Imaging Contrast Agent for Long-Term Cell Tracking. <i>Nanoscale Advances</i> , 2019 , 1, 3514-3520	5.1	12
57	Aggregation-Enhanced Photoluminescence and Photoacoustics of Atomically Precise Gold Nanoclusters in Lipid Nanodiscs (NANO). <i>Advanced Functional Materials</i> , 2021 , 31, 2009750	15.6	12

56	Molecular imaging with surface-enhanced Raman spectroscopy nanoparticle reporters. <i>MRS Bulletin</i> , 2013 , 38, 625	3.2	10
55	A Magnetic Bead-Based Sensor for the Quantification of Multiple Prostate Cancer Biomarkers. <i>PLoS ONE</i> , 2015 , 10, e0139484	3.7	10
54	Optics-Free, Non-Contact Measurements of Fluids, Bubbles, and Particles in Microchannels Using Metallic Nano-Islands on Graphene. <i>Nano Letters</i> , 2018 , 18, 5306-5311	11.5	9
53	Tuning the ultrasonic and photoacoustic response of polydopamine-stabilized perfluorocarbon contrast agents. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 4833-4842	7.3	9
52	A Charge-Switchable Zwitterionic Peptide for Rapid Detection of SARS-CoV-2 Main Protease.. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	9
51	Assessment of Respiratory Droplet Transmission During the Ophthalmic Slit-Lamp Exam: A Particle Tracking Analysis. <i>American Journal of Ophthalmology</i> , 2021 , 222, 76-81	4.9	9
50	Copper Sulfide Nanodisks and Nanoprisms for Photoacoustic Ovarian Tumor Imaging. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900171	3.1	8
49	Photoacoustic Imaging Quantifies Drug Release from Nanocarriers via Redox Chemistry of Dye-Labeled Cargo. <i>Angewandte Chemie</i> , 2020 , 132, 4708-4713	3.6	8
48	Polyacrylamide hydrogel phantoms for performance evaluation of multispectral photoacoustic imaging systems. <i>Photoacoustics</i> , 2021 , 22, 100245	9	8
47	Motion-compensated noninvasive periodontal health monitoring using handheld and motor-based photoacoustic-ultrasound imaging systems. <i>Biomedical Optics Express</i> , 2021 , 12, 1543-1558	3.5	8
46	Stereoselective Growth of Small Molecule Patches on Nanoparticles. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12138-12144	16.4	7
45	Smart-Dust-Nanorice for Enhancement of Endogenous Raman Signal, Contrast in Photoacoustic Imaging, and T2-Shortening in Magnetic Resonance Imaging. <i>Small</i> , 2018 , 14, e1703683	11	6
44	Ultrasmall gold nanorod-polydopamine hybrids for enhanced photoacoustic imaging and photothermal therapy in second near-infrared window.. <i>Nanotheranostics</i> , 2022 , 6, 79-90	5.6	6
43	Assessment of N95 and K95 respirator decontamination: fiber integrity, filtration efficiency, and dipole charge density 2020 ,		6
42	Assessing the Physiological Relevance of Cough Simulators for Respiratory Droplet Dispersion. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	6
41	Multispectral Nanoparticle Tracking Analysis for the Real-Time and Label-Free Characterization of Amyloid- β Self-Assembly In Vitro. <i>Analytical Chemistry</i> , 2020 , 92, 11590-11599	7.8	6
40	Mapping Aerosolized Saliva on Face Coverings for Biosensing Applications. <i>Analytical Chemistry</i> , 2021 , 93, 11025-11032	7.8	6
39	Hybridizing clinical translatability with enzyme-free DNA signal amplifiers: recent advances in nucleic acid detection and imaging. <i>Biomaterials Science</i> , 2021 , 9, 347-366	7.4	6

38	The Application of Organic Nanomaterials for Bioimaging, Drug Delivery, and Therapy: Spanning Various Domains. <i>IEEE Nanotechnology Magazine</i> , 2021 , 15, 8-28	1.7	6
37	Review of consensus test methods in medical imaging and current practices in photoacoustic image quality assessment. <i>Journal of Biomedical Optics</i> , 2021 , 26,	3.5	5
36	Versatile Polymer Nanocapsules via Redox Competition. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26357-26362	16.4	5
35	Stem Cell Tracking with Nanoparticle-Based Ultrasound Contrast Agents. <i>Methods in Molecular Biology</i> , 2020 , 2126, 141-153	1.4	5
34	Impact of skin tone on photoacoustic oximetry and tools to minimize bias.. <i>Biomedical Optics Express</i> , 2022 , 13, 875-887	3.5	4
33	Photoacoustic Imaging as a Tool for Assessing Hair Follicular Organization. <i>Sensors</i> , 2020 , 20,	3.8	4
32	Robust and Versatile Coatings Engineered via Simultaneous Covalent and Noncovalent Interactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20225-20230	16.4	4
31	Modulation of Gold Nanorod Growth via the Proteolysis of Dithiol Peptides for Enzymatic Biomarker Detection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45236-45243	9.5	4
30	A Dual-Color Fluorescent Probe Allows Simultaneous Imaging of Main and Papain-like Proteases of SARS-CoV-2-Infected Cells for Accurate Detection and Rapid Inhibitor Screening. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	3
29	A fiber optic photoacoustic sensor for real-time heparin monitoring. <i>Biosensors and Bioelectronics</i> , 2022 , 196, 113692	11.8	3
28	Nanoparticles for Ultrasound-Guided Imaging of Cell Implantation 2017 , 299-314		3
27	Point-of-Care Ultrasound as a Tool to Assess Wound Size and Tissue Regeneration after Skin Grafting. <i>Ultrasound in Medicine and Biology</i> , 2021 , 47, 2550-2559	3.5	3
26	Photoacoustic monitoring of angiogenesis predicts response to therapy in healing wounds.. <i>Wound Repair and Regeneration</i> , 2022 ,	3.6	2
25	Photoacoustic monitoring of angiogenesis predicts response to therapy in healing wounds		2
24	OpenACC GPU implementation of double-stage delay-multiply-and-sum algorithm: toward enhanced real-time linear-array photoacoustic tomography 2019 ,		2
23	Enhanced Photoacoustic Detection of Heparin in Whole Blood Melanin Nanocapsules Carrying Molecular Agents.. <i>ACS Nano</i> , 2021 ,	16.7	2
22	Copper sulfide nanodisk as photoacoustic contrast agent for ovarian tumor detection 2017 ,		1
21	Cellulose nanoparticles: photoacoustic contrast agents that biodegrade to simple sugars 2014 ,		1

20	Gold nanorods combine photoacoustic and Raman imaging for detection and treatment of ovarian cancer 2014 ,		1
19	A Dual-Color Fluorescent Probe Allows Simultaneous Imaging of Main and Papain-like Proteases of SARS-CoV-2-Infected Cells for Accurate Detection and Rapid Inhibitor Screening. <i>Angewandte Chemie</i> ,	3.6	1
18	Peptidic Sulfhydryl for Interfacing Nanocrystals and Subsequent Sensing of SARS-CoV-2 Protease. <i>Chemistry of Materials</i> , 2022 , 34, 1259-1268	9.6	1
17	Photoacoustic Ultrasound for Enhanced Contrast in Dental and Periodontal Imaging 2021 , 215-230		1
16	Robust and Versatile Coatings Engineered via Simultaneous Covalent and Noncovalent Interactions. <i>Angewandte Chemie</i> , 2021 , 133, 20387-20392	3.6	1
15	Versatile Polymer Nanocapsules via Redox Competition. <i>Angewandte Chemie</i> ,	3.6	1
14	Peptide-Induced Fractal Assembly of Silver Nanoparticles for Visual Detection of Disease Biomarkers.. <i>ACS Nano</i> , 2022 ,	16.7	1
13	Hyperbranched Molecularly Imprinted Photoactive Polymers and Its Detection of Tetracycline Antibiotics. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 1234-1242	4.3	0
12	Hydro-Expandable Calcium Phosphate Micro/Nano-Particles with Controllable Size and Morphology for Mechanical Ablation. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3877-3886	5.6	0
11	Inorganic Fluorescent Nanomaterials. <i>Topics in Medicinal Chemistry</i> , 2019 , 55-80	0.4	0
10	The fate of tobacco mosaic virus nanoparticle theranostic agents modified by the addition of a polydopamine coat. <i>Biomaterials Science</i> , 2021 , 9, 7134-7150	7.4	0
9	Initial Investigations Towards Non-invasive Monitoring of Chronic Wound Healing Using Deep Learning and Ultrasound Imaging. <i>Informatik Aktuell</i> , 2022 , 261-266	0.3	0
8	Supramolecular Assembly of Multifunctional Collagen Nanocomposite Film via Polyphenol-Coordinated Clay Nanoplatelets.. <i>ACS Applied Bio Materials</i> , 2022 , 5, 1319-1329	4.1	0
7	Photoacoustic imaging phantoms for assessment of object detectability and boundary buildup artifacts.. <i>Photoacoustics</i> , 2022 , 26, 100348	9	0
6	Monitoring peripheral hemodynamic response to changes in blood pressure via photoacoustic imaging.. <i>Photoacoustics</i> , 2022 , 26, 100345	9	0
5	Photoacoustic Enhancement of Ferricyanide-Treated Silver Chalcogenide-Coated Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 7605-7614	3.8	0
4	High-resolution ultrasonography of gingival biomarkers for periodontal diagnosis in healthy and diseased subjects.. <i>Dentomaxillofacial Radiology</i> , 2022 , 20220044	3.9	0
3	Innentitelbild: Photoacoustic Imaging Quantifies Drug Release from Nanocarriers via Redox Chemistry of Dye-Labeled Cargo (Angew. Chem. 12/2020). <i>Angewandte Chemie</i> , 2020 , 132, 4622-4622	3.6	

2 Development of Appropriate Imaging Methods to Trace Cell Fate, Engraftment, and Cell Survival
2015, 529-537

1 Nanodevices: Location of Biomarkers and Reagents within Agarose Beads of a Programmable
Nano-bio-chip (Small 5/2011). *Small*, **2011**, 7, 612-612

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