Konstantin Sokolov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

131 8,025 45 88 g-index

152 8,825 5.8 5.73 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
131	Photoacoustic Imaging with Plasmonic Nanoparticles 2022 , 325-370		
130	Prospecting Cellular Gold Nanoparticle Biomineralization as a Viable Alternative to Prefabricated Gold Nanoparticles <i>Advanced Science</i> , 2022 , e2105957	13.6	1
129	Fate of Antibody-Targeted Ultrasmall Gold Nanoparticles in Cancer Cells after Receptor-Mediated Uptake. <i>ACS Nano</i> , 2021 , 15, 9495-9508	16.7	2
128	Clinically translatable quantitative molecular photoacoustic imaging with liposome-encapsulated ICG J-aggregates. <i>Nature Communications</i> , 2021 , 12, 5410	17.4	10
127	Roadmap for metal nanoparticles in radiation therapy: current status, translational challenges, and future directions. <i>Physics in Medicine and Biology</i> , 2020 , 65, 21RM02	3.8	45
126	Repetitive optical coherence elastography measurements with blinking nanobombs. <i>Biomedical Optics Express</i> , 2020 , 11, 6659-6673	3.5	2
125	Longitudinal elastic wave imaging using nanobomb optical coherence elastography: erratum. <i>Optics Letters</i> , 2020 , 45, 3296	3	1
124	Role of alkylated residues in the tetrapeptide self-assembly-A molecular dynamics study. <i>Journal of Computational Chemistry</i> , 2020 , 41, 2634-2640	3.5	1
123	Application of metasurface-enhanced infra-red spectroscopy to distinguish between normal and cancerous cell types. <i>Analyst, The</i> , 2019 , 144, 1115-1127	5	12
122	Spatiotemporally controlled nano-sized third harmonic generation agents. <i>Biomedical Optics Express</i> , 2019 , 10, 3301-3316	3.5	2
121	Molecular photoacoustic imaging with ultra-small gold nanoparticles. <i>Biomedical Optics Express</i> , 2019 , 10, 3472-3483	3.5	33
120	Longitudinal elastic wave imaging using nanobomb optical coherence elastography. <i>Optics Letters</i> , 2019 , 44, 3162-3165	3	11
119	Indocyanine Green J Aggregates in Polymersomes for Near-Infrared Photoacoustic Imaging. <i>ACS Applied Materials & Discourse (Materials & Discours)</i> 11, 46437-46450	9.5	12
118	Improved Photoacoustic-Based Oxygen Saturation Estimation With SNR-Regularized Local Fluence Correction. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 561-571	11.7	20
117	Nanobomb optical coherence elastography. <i>Optics Letters</i> , 2018 , 43, 2006-2009	3	15
116	Control of Primary Particle Spacing in Gold Nanoparticle Clusters for Both High NIR Extinction and Full Reversibility. <i>Langmuir</i> , 2017 , 33, 3413-3426	4	5
115	Detection of precancerous lesions in the oral cavity using oblique polarized reflectance spectroscopy: a clinical feasibility study. <i>Journal of Biomedical Optics</i> , 2017 , 22, 65002	3.5	6

114	Synthesis of Stable Citrate-Capped Silver Nanoprisms. <i>Langmuir</i> , 2017 , 33, 10525-10530	4	33
113	Rapid real-time recirculating PCR using localized surface plasmon resonance (LSPR) and piezo-electric pumping. <i>Lab on A Chip</i> , 2017 , 17, 2821-2830	7.2	19
112	Depth-resolved measurements with elliptically polarized reflectance spectroscopy. <i>Biomedical Optics Express</i> , 2016 , 7, 2861-76	3.5	1
111	Feature issue introduction: biophotonic materials and applications. <i>Biomedical Optics Express</i> , 2016 , 7, 2078-81	3.5	1
110	Visualization of molecular composition and functionality of cancer cells using nanoparticle-augmented ultrasound-guided photoacoustics. <i>Photoacoustics</i> , 2015 , 3, 26-34	9	36
109	Biodegradable Plasmonic Nanoparticles: Overcoming Clinical Translation Barriers 2015,		2
108	Screening and Molecular Analysis of Single Circulating Tumor Cells Using Micromagnet Array. <i>Scientific Reports</i> , 2015 , 5, 16047	4.9	41
107	An Immunofluorescence-Assisted Microfluidic Single Cell Quantitative Reverse Transcription Polymerase Chain Reaction Analysis of Tumour Cells Separated from Blood. <i>Journal of Circulating Biomarkers</i> , 2015 , 4, 11	3.3	3
106	Multimodal Magneto-Plasmonic Nanoclusters for Biomedical Applications. <i>Advanced Functional Materials</i> , 2014 , 24, 6862-6871	15.6	35
105	Sentinel lymph node biopsy revisited: ultrasound-guided photoacoustic detection of micrometastases using molecularly targeted plasmonic nanosensors. <i>Cancer Research</i> , 2014 , 74, 5397-4	070.1	74
104	Quenched Assembly of NIR-Active Gold Nanoclusters Capped with Strongly Bound Ligands by Tuning Particle Charge via pH and Salinity. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14291-14298	3.8	16
103	Synthesis of immunotargeted magneto-plasmonic nanoclusters. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	2
102	Plasmonic biodegradable gold nanoclusters with high NIR-absorbance for biomedical imaging 2014 ,		2
101	Depth sensitive oblique polarized reflectance spectroscopy of oral epithelial tissue 2014,		1
100	Use of colloidal quantum dots as a digitally switched swept light source for gold nanoparticle based hyperspectral microscopy. <i>Biomedical Optics Express</i> , 2014 , 5, 1610-5	3.5	3
99	EGFR-targeted plasmonic magnetic nanoparticles suppress lung tumor growth by abrogating G2/M cell-cycle arrest and inducing DNA damage. <i>International Journal of Nanomedicine</i> , 2014 , 9, 3825-39	7.3	23
98	Immunomagnetic nanoscreening of circulating tumor cells with a motion controlled microfluidic system. <i>Biomedical Microdevices</i> , 2013 , 15, 673-681	3.7	56
97	Versatile immunomagnetic nanocarrier platform for capturing cancer cells. ACS Nano, 2013, 7, 8816-23	16.7	99

96	Excretion and toxicity of gold-iron nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 356-65	6	41
95	Conjugation of antibodies to gold nanorods through Fc portion: synthesis and molecular specific imaging. <i>Bioconjugate Chemistry</i> , 2013 , 24, 878-88	6.3	77
94	Charged gold nanoparticles with essentially zero serum protein adsorption in undiluted fetal bovine serum. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7799-802	16.4	73
93	Equilibrium gold nanoclusters quenched with biodegradable polymers. <i>ACS Nano</i> , 2013 , 7, 239-51	16.7	49
92	Development and optimization of near-IR contrast agents for immune cell tracking. <i>Biomedical Optics Express</i> , 2013 , 4, 2609-18	3.5	18
91	Multifunctional Tumor-Targeted Nanoparticles for Lung Cancer 2012 , 15-44		O
90	Preventing protein adsorption and macrophage uptake of gold nanoparticles via a hydrophobic shield. <i>ACS Nano</i> , 2012 , 6, 9182-90	16.7	165
89	Intravascular photoacoustic imaging of exogenously labeled atherosclerotic plaque through luminal blood. <i>Journal of Biomedical Optics</i> , 2012 , 17, 106016	3.5	36
88	Thermal stability of biodegradable plasmonic nanoclusters in photoacoustic imaging. <i>Optics Express</i> , 2012 , 20, 29479-87	3.3	17
87	Intravascular photoacoustic imaging of gold nanorod-labeled atherosclerotic plaques 2012,		2
86	Magneto-photo-acoustic imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 385	3.5	51
85	Multiplex photoacoustic molecular imaging using targeted silica-coated gold nanorods. <i>Biomedical Optics Express</i> , 2011 , 2, 1828-35	3.5	58
84	Function of mesenchymal stem cells following loading of gold nanotracers. <i>International Journal of Nanomedicine</i> , 2011 , 6, 407-16	7.3	78
83	Ultrasound and photoacoustic imaging to monitor mesenchymal stem cells labeled with gold nanoparticles 2011 ,		4
82	Ultrasound-Based Molecular Imaging Using Nanoagents 2011 , 263-278		1
81	Selective targeting of antibody conjugated multifunctional nanoclusters (nanoroses) to epidermal growth factor receptors in cancer cells. <i>Langmuir</i> , 2011 , 27, 7681-90	4	36
80	Pulsed magneto-motive ultrasound imaging to detect intracellular trafficking of magnetic nanoparticles. <i>Nanotechnology</i> , 2011 , 22, 415105	3.4	17
79	Magneto-photo-acoustic imaging. <i>Biomedical Optics Express</i> , 2011 , 2, 385-96	3.5	26

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78	EGFR-targeted hybrid plasmonic magnetic nanoparticles synergistically induce autophagy and apoptosis in non-small cell lung cancer cells. <i>PLoS ONE</i> , 2011 , 6, e25507	3.7	80
77	Intravascular photoacoustic imaging of macrophages using molecularly targeted gold nanoparticles 2010 ,		8
76	On stability of molecular therapeutic agents for noninvasive photoacoustic and ultrasound image-guided photothermal therapy 2010 ,		4
75	Adaptive spectral window sizes for extraction of diagnostic features from optical spectra. <i>Journal of Biomedical Optics</i> , 2010 , 15, 047012	3.5	1
74	Molecular diagnosis of cancer using multiplex photoacoustic imaging with targeted nanorods 2010,		1
73	Biodegradable plasmonic nanoclusters as contrast agent for photoacoustic imaging 2010 ,		3
72	Efficient mucosal delivery of optical contrast agents using imidazole-modified chitosan. <i>Journal of Biomedical Optics</i> , 2010 , 15, 015003	3.5	16
71	Kinetic assembly of near-IR-active gold nanoclusters using weakly adsorbing polymers to control the size. <i>Langmuir</i> , 2010 , 26, 8988-99	4	57
70	Depth resolved photothermal OCT detection of macrophages in tissue using nanorose. <i>Biomedical Optics Express</i> , 2010 , 1, 2-16	3.5	30
69	Gold nanorod light scattering labels for biomedical imaging. <i>Biomedical Optics Express</i> , 2010 , 1, 135-142	3.5	15
68	Enhanced thermal stability of silica-coated gold nanorods for photoacoustic imaging and image-guided therapy. <i>Optics Express</i> , 2010 , 18, 8867-78	3.3	297
67	Utility of biodegradable plasmonic nanoclusters in photoacoustic imaging. <i>Optics Letters</i> , 2010 , 35, 375	133	45
66	Directed evolution of gold nanoparticle delivery to cells. <i>Chemical Communications</i> , 2010 , 46, 392-4	5.8	105
65	Controlled assembly of biodegradable plasmonic nanoclusters for near-infrared imaging and therapeutic applications. <i>ACS Nano</i> , 2010 , 4, 2178-84	16.7	149
64	Intravascular Photoacoustic Imaging. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 588-599	3.8	83
63	On sensitivity of molecular specific photoacoustic imaging using plasmonic gold nanoparticles. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 6338-40	0.9	5
62	Ultrasound-based imaging of nanoparticles: From molecular and cellular imaging to therapy guidance 2009 ,		7
61	Combined photoacoustic and magneto-acoustic imaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009 , 2009, 4763-6	0.9	8

60	High sensitivity intravascular photoacoustic imaging of macrophages 2009,		2
59	Molecular imaging and darkfield microspectroscopy of live cells using gold plasmonic nanoparticles. <i>Laser and Photonics Reviews</i> , 2009 , 3, 146-158	8.3	77
58	Limitations on the optical tunability of small diameter gold nanoshells. <i>Langmuir</i> , 2009 , 25, 11777-85	4	67
57	Compact beveled fiber optic probe design for enhanced depth discrimination in epithelial tissues. <i>Optics Express</i> , 2009 , 17, 2780-96	3.3	17
56	Multiwavelength photoacoustic imaging and plasmon resonance coupling of gold nanoparticles for selective detection of cancer. <i>Nano Letters</i> , 2009 , 9, 2825-31	11.5	370
55	Cancer imaging and therapy with metal nanoparticles. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 2005-7	0.9	5
54	Dynamic imaging of molecular assemblies in live cells based on nanoparticle plasmon resonance coupling. <i>Nano Letters</i> , 2009 , 9, 3612-8	11.5	142
53	Plasmonic intravascular photoacoustic imaging for detection of macrophages in atherosclerotic plaques. <i>Nano Letters</i> , 2009 , 9, 2212-7	11.5	169
52	Molecular therapeutic agents for noninvasive photoacoustic image-guided photothermal therapy. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009 , 2009, 4106-9	0.9	4
51	Small multifunctional nanoclusters (nanoroses) for targeted cellular imaging and therapy. <i>ACS Nano</i> , 2009 , 3, 2686-96	16.7	174
50	Directional conjugation of antibodies to nanoparticles for synthesis of multiplexed optical contrast agents with both delivery and targeting moieties. <i>Nature Protocols</i> , 2008 , 3, 314-20	18.8	318
49	Observation of plasmon line broadening in single gold nanorods. <i>Applied Physics Letters</i> , 2008 , 93, 1531	0564	23
48	Polarization microscopy with stellated gold nanoparticles for robust monitoring of molecular assemblies and single biomolecules. <i>Optics Express</i> , 2008 , 16, 2153-67	3.3	68
47	Ultrasound imaging to monitor photothermal therapy - feasibility study. <i>Optics Express</i> , 2008 , 16, 3776-	85 .3	36
46	Photoacoustic and ultrasound imaging to guide photothermal therapy: ex vivo study 2008,		4
45	Selective detection of cancer using spectroscopic photoacoustic imaging and bioconjugated gold nanoparticles 2008 ,		2
44	Probing local tissue changes in the oral cavity for early detection of cancer using oblique polarized reflectance spectroscopy: a pilot clinical trial. <i>Journal of Biomedical Optics</i> , 2008 , 13, 024011	3.5	29
43	Multispectral optical imaging device for in vivo detection of oral neoplasia. <i>Journal of Biomedical Optics</i> , 2008 , 13, 024019	3.5	111

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42	Photoacoustic imaging and temperature measurement for photothermal cancer therapy. <i>Journal of Biomedical Optics</i> , 2008 , 13, 034024	3.5	225
41	Simulation of a plasmonic tip-terminated scanning nanowire waveguide for molecular imaging. <i>Applied Physics Letters</i> , 2008 , 93, 193101	3.4	9
40	Molecular specific photoacoustic imaging with plasmonic nanosensors 2008,		2
39	Phenomenology of optical scattering from plasmonic aggregates for application to biological imaging and clinical therapeutics 2008 ,		2
38	Two-photon luminescence imaging of cancer cells using molecularly targeted gold nanorods. <i>Nano Letters</i> , 2007 , 7, 941-5	11.5	769
37	Plasmon resonance coupling of metal nanoparticles for molecular imaging of carcinogenesis in vivo. <i>Journal of Biomedical Optics</i> , 2007 , 12, 034007	3.5	139
36	A far-red fluorescent contrast agent to image epidermal growth factor receptor expression. <i>Photochemistry and Photobiology</i> , 2007 , 79, 272-279	3.6	3
35	. IEEE Journal of Selected Topics in Quantum Electronics, 2007 , 13, 1730-1738	3.8	23
34	Microanatomical and Biochemical Origins of Normal and Precancerous Cervical Autofluorescence Using Laser-scanning Fluorescence Confocal Microscopy ¶. <i>Photochemistry and Photobiology</i> , 2007 , 77, 550-555	3.6	6
33	Molecular optical imaging of therapeutic targets of cancer. Advances in Cancer Research, 2007, 96, 299-3	344)	24
32	10A-3 Intravascular Photoacoustic Imaging with Gold Nanoparticles. <i>Proceedings IEEE Ultrasonics Symposium</i> , 2007 ,		3
31	8B-2 Imaging of Iron Oxide Nanoparticles Using Magneto-Motive Ultrasound 2007 ,		20
30	Molecular specific optoacoustic imaging with plasmonic nanoparticles. <i>Optics Express</i> , 2007 , 15, 6583-8	3.3	153
29	Hybrid plasmonic magnetic nanoparticles as molecular specific agents for MRI/optical imaging and photothermal therapy of cancer cells. <i>Nanotechnology</i> , 2007 , 18, 325101	3.4	154
28	Plasmonic nanosensors for imaging intracellular biomarkers in live cells. <i>Nano Letters</i> , 2007 , 7, 1338-43	11.5	198
27	4J-2 Ultrasound-Based Thermal and Elasticity Imaging to Assist Photothermal Cancer Therapy - Preliminary Study 2006 ,		4
26	Increased optical contrast in imaging of epidermal growth factor receptor using magnetically actuated hybrid gold/iron oxide nanoparticles. <i>Optics Express</i> , 2006 , 14, 12930-43	3.3	59
25	In vivo optical detection of intranuclear cancer biomarkers using gold nanoparticles 2006 , 6095, 7		2

24	Multispectral digital microscopy for in vivo monitoring of oral neoplasia in the hamster cheek pouch model of carcinogenesis. <i>Optics Express</i> , 2005 , 13, 749-62	3.3	10
23	Optical imaging of cervical pre-cancers with structured illumination: an integrated approach. <i>Gynecologic Oncology</i> , 2005 , 99, S112-5	4.9	26
22	A far-red fluorescent contrast agent to image epidermal growth factor receptor expression. <i>Photochemistry and Photobiology</i> , 2004 , 79, 272-9	3.6	31
21	Polarized reflectance spectroscopy for pre-cancer detection. <i>Technology in Cancer Research and Treatment</i> , 2004 , 3, 1-14	2.7	20
20	High resolution, molecular-specific, reflectance imaging in optically dense tissue phantoms with structured-illumination. <i>Optics Express</i> , 2004 , 12, 3745-58	3.3	23
19	Optical sectioning using a fiber probe with an angled illumination-collection geometry: evaluation in engineered tissue phantoms. <i>Applied Optics</i> , 2004 , 43, 1308-19	1.7	50
18	Multimodal miniature microscope (4M Device): novel methodology for multimodality tissue imaging in vivo 2003 ,		1
17	Imaging quality assessment of multi-modal miniature microscope. <i>Optics Express</i> , 2003 , 11, 1436-51	3.3	9
16	Optical systems for in vivo molecular imaging of cancer. <i>Technology in Cancer Research and Treatment</i> , 2003 , 2, 491-504	2.7	167
15	Microanatomical and biochemical origins of normal and precancerous cervical autofluorescence using laser-scanning fluorescence confocal microscopy. <i>Photochemistry and Photobiology</i> , 2003 , 77, 550)-3 ^{.6}	115
14	Real-time vital optical imaging of precancer using anti-epidermal growth factor receptor antibodies conjugated to gold nanoparticles. <i>Cancer Research</i> , 2003 , 63, 1999-2004	10.1	590
13	Endoscopic microscopy. <i>Disease Markers</i> , 2002 , 18, 269-91	3.2	21
12	Optical spectroscopy for detection of neoplasia. Current Opinion in Chemical Biology, 2002, 6, 651-8	9.7	138
11	Fiber optic probe for polarized reflectance spectroscopy in vivo: design and performance. <i>Journal of Biomedical Optics</i> , 2002 , 7, 388-97	3.5	59
10	Realistic three-dimensional epithelial tissue phantoms for biomedical optics. <i>Journal of Biomedical Optics</i> , 2002 , 7, 148-56	3.5	87
9	Understanding the contributions of NADH and collagen to cervical tissue fluorescence spectra: modeling, measurements, and implications. <i>Journal of Biomedical Optics</i> , 2001 , 6, 385-96	3.5	233
8	Reflectance spectroscopy with polarized light: is it sensitive to cellular and nuclear morphology. <i>Optics Express</i> , 1999 , 5, 302-17	3.3	153
7	Enhancement of molecular fluorescence near the surface of colloidal metal films. <i>Analytical Chemistry</i> , 1998 , 70, 3898-905	7.8	390

LIST OF PUBLICATIONS

6	Scanning Force Microscopy Study of Methanol-Induced Changes in the Distribution of Silver Particles in Colloidal Metal Films. <i>Journal of Colloid and Interface Science</i> , 1997 , 185, 466-72	9.3	11
5	Unusual Extinction Spectra of Nanometer-Sized Silver Particles Arranged in Two-Dimensional Arrays. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 5166-5168		75
4	Trace analysis by surface-enhanced Raman scattering with the use of the track membrane technique. <i>Journal of Applied Spectroscopy</i> , 1993 , 59, 820-825	0.7	
3	Contributions of Short-Range and Classical Electromagnetic Mechanisms to Surface-Enhanced Raman Scattering from Several Types of Biomolecules Adsorbed on Cold-Deposited Island Films. <i>Applied Spectroscopy</i> , 1993 , 47, 515-522	3.1	38
2	Detection of Sialic Acid Residues and Studies of Their Organization in Normal and Tumor Il-Acid Glycoproteins as Probed by Surface-Enhanced Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1993 , 47, 535	5-338	13
1	Surface-enhanced Raman spectroscopy of biomolecules. Part III. Determination of the local destabilization regions in the double helix. <i>Journal of Raman Spectroscopy</i> , 1990 , 21, 333-336	2.3	33