

Sebastian Wachsmann-Hogiu

List of Publications by Year in descending order

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75
papers

4,238
citations

136950

32
h-index

110387

64
g-index

76
all docs

76
docs citations

76
times ranked

7514
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-Phone-Based Platform for Biomedical Device Development and Education Applications. PLoS ONE, 2011, 6, e17150.	2.5	301
2	Autonomic Innervation and Segmental Muscular Disconnections at the Human Pulmonary Vein-Atrial Junction. Journal of the American College of Cardiology, 2006, 48, 132-143.	2.8	299
3	Cyclin B1/Cdk1 Coordinates Mitochondrial Respiration for Cell-Cycle G2/M Progression. Developmental Cell, 2014, 29, 217-232.	7.0	292
4	Mutations in the gene encoding filamin B disrupt vertebral segmentation, joint formation and skeletogenesis. Nature Genetics, 2004, 36, 405-410.	21.4	252
5	Single exosome study reveals subpopulations distributed among cell lines with variability related to membrane content. Journal of Extracellular Vesicles, 2015, 4, 28533.	12.2	240
6	Aptamer-Based SERRS Sensor for Thrombin Detection. Nano Letters, 2008, 8, 4386-4390.	9.1	185
7	Chemical analysis in vivo and in vitro by Raman spectroscopyâ€”from single cells to humans. Current Opinion in Biotechnology, 2009, 20, 63-73.	6.6	179
8	Fundamentals and applications of SERS-based bioanalytical sensing. Nanophotonics, 2017, 6, 831-852.	6.0	141
9	3D plasmonic nanobowl platform for the study of exosomes in solution. Nanoscale, 2015, 7, 9290-9297.	5.6	138
10	Spheres Isolated from 9L Gliosarcoma Rat Cell Line Possess Chemoresistant and Aggressive Cancer Stem-Like Cells. Stem Cells, 2007, 25, 1645-1653.	3.2	132
11	Are plasmonic optical biosensors ready for use in point-of-need applications?. Analyst, The, 2020, 145, 364-384.	3.5	123
12	Fabrication and Characterization of Flexible and Tunable Plasmonic Nanostructures. Scientific Reports, 2013, 3, 3396.	3.3	114
13	Polycefin, a New Prototype of a Multifunctional Nanoconjugate Based on Poly(L-malic acid) for Drug Delivery. Bioconjugate Chemistry, 2006, 17, 317-326.	3.6	96
14	Induction of Potent Antitumor Immunity by Intratumoral Injection of Interleukin 23â€”Transduced Dendritic Cells. Cancer Research, 2006, 66, 8887-8896.	0.9	92
15	Characterization of Chiral H and J Aggregates of Cyanine Dyes Formed by DNA Templating Using Stark and Fluorescence Spectroscopies. Journal of Physical Chemistry B, 2001, 105, 12196-12201.	2.6	90
16	Novel theranostic nanoporphyrins for photodynamic diagnosis and trimodal therapy for bladder cancer. Biomaterials, 2016, 104, 339-351.	11.4	83
17	Nanoconjugate based on polymalic acid for tumor targeting. Chemico-Biological Interactions, 2008, 171, 195-203.	4.0	80
18	Pleiotrophin Induces Transdifferentiation of Monocytes Into Functional Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1273-1280.	2.4	70

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19	Development, History, and Future of Automated Cell Counters. <i>Clinics in Laboratory Medicine</i> , 2015, 35, 1-10.	1.4	70
20	Thickness of a metallic film, in addition to its roughness, plays a significant role in SERS activity. <i>Scientific Reports</i> , 2015, 5, 11644.	3.3	69
21	Type XXVII collagen at the transition of cartilage to bone during skeletogenesis. <i>Bone</i> , 2007, 41, 535-542.	2.9	67
22	Image reconstruction for structured-illumination microscopy with low signal level. <i>Optics Express</i> , 2014, 22, 8687.	3.4	65
23	Size-Dependent Lipid Content in Human Milk Fat Globules. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 7446-7450.	5.2	60
24	Label-free SERS analysis of proteins and exosomes with large-scale substrates from recordable compact disks. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 657-662.	7.8	60
25	Development of a time-gated system for Raman spectroscopy of biological samples. <i>Optics Express</i> , 2010, 18, 20049.	3.4	47
26	Combined fiber probe for fluorescence lifetime and Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8291-8301.	3.7	47
27	Hybrid Nanoplasmonic Porous Biomaterial Scaffold for Liquid Biopsy Diagnostics Using Extracellular Vesicles. <i>ACS Sensors</i> , 2020, 5, 2820-2833.	7.8	45
28	Fluorescence-suppressed time-resolved Raman spectroscopy of pharmaceuticals using complementary metal-oxide semiconductor (CMOS) single-photon avalanche diode (SPAD) detector. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 761-774.	3.7	40
29	The Effects of Structural and Microenvironmental Disorder on the Electronic Properties of Poly[2-methoxy,5-(2-ethyl-hexoxy)-1,4-phenylene vinylene] (MEH-PPV) and Related Oligomers. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5133-5143.	2.6	39
30	Single-step preparation and image-based counting of minute volumes of human blood. <i>Lab on A Chip</i> , 2014, 14, 3029.	6.0	38
31	An AgNP-deposited commercial electrochemistry test strip as a platform for urea detection. <i>Scientific Reports</i> , 2020, 10, 9527.	3.3	36
32	Plasmonic nanobowtiefluidic device for sensitive detection of glioma extracellular vesicles by Raman spectrometry. <i>Lab on A Chip</i> , 2021, 21, 855-866.	6.0	36
33	Inexpensive and Flexible SERS Substrates on Adhesive Tape Based on Biosilica Plasmonic Nanocomposites. <i>ACS Applied Nano Materials</i> , 2018, 1, 5316-5326.	5.0	32
34	Label-free and direct protein detection on 3D plasmonic nanovoid structures using surface-enhanced Raman scattering. <i>Analytica Chimica Acta</i> , 2015, 856, 74-81.	5.4	31
35	Simultaneous forward and epi-CARS microscopy with a single detector by timecorrelated single photon counting. <i>Optics Express</i> , 2008, 16, 2168.	3.4	29
36	Morphology and structure of ZIF-8 during crystallisation measured by dynamic angle-resolved second harmonic scattering. <i>Nature Communications</i> , 2018, 9, 3418.	12.8	29

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37	Characterization of high-affinity peptides and their feasibility for use in nanotherapeutics targeting leukemia stem cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1116-1124.	3.3	26
38	Hydrophobicity-driven self-assembly of protein and silver nanoparticles for protein detection using surface-enhanced Raman scattering. <i>Analyst, The</i> , 2013, 138, 2906.	3.5	25
39	Multimodal wide-field two-photon excitation imaging: characterization of the technique for in vivo applications. <i>Biomedical Optics Express</i> , 2011, 2, 356.	2.9	22
40	The effects of laser repetition rate on femtosecond laser ablation of dry bone: a thermal and LIBS study. <i>Journal of Biophotonics</i> , 2016, 9, 171-180.	2.3	22
41	Dual-plane illumination-imaging system for high resolution and large field of view multi-modal microscopy. <i>Lab on A Chip</i> , 2019, 19, 825-836.	6.0	21
42	Conformational effects on optical charge transfer in the emeraldine base form of polyaniline from electroabsorption measurements and semiempirical calculations. <i>Journal of Chemical Physics</i> , 2001, 115, 4359-4366.	3.0	20
43	Multivariate optical computing using a digital micromirror device for fluorescence and Raman spectroscopy. <i>Optics Express</i> , 2011, 19, 16950.	3.4	20
44	Something has to give: scaling combinatorial computing by biological agents exploring physical networks encoding NP-complete problems. <i>Interface Focus</i> , 2018, 8, 20180034.	3.0	18
45	Raman and surface-enhanced Raman spectroscopic studies of the 15-mer DNA thrombin-binding aptamer. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 241-247.	2.5	17
46	Raman Microscopy based on Doubly-Resonant Four-Wave Mixing (DR-FWM). <i>Optics Express</i> , 2009, 17, 17044.	3.4	17
47	Long term Raman spectral study of power-dependent photodamage in red blood cells. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	17
48	Smart and Fast Blood Counting of Trace Volumes of Body Fluids from Various Mammalian Species Using a Compact, Custom-Built Microscope Cytometer. <i>Analytical Chemistry</i> , 2015, 87, 11854-11862.	6.5	17
49	Laser-induced micropore formation and modification of cartilage structure in osteoarthritis healing. <i>Journal of Biomedical Optics</i> , 2017, 22, 091515.	2.6	17
50	Fs-laser ablation of teeth is temperature limited and provides information about the ablated components. <i>Journal of Biophotonics</i> , 2017, 10, 1292-1304.	2.3	17
51	A Bifunctional Anti-Amyloid Blocks Oxidative Stress and the Accumulation of Intraneuronal Amyloid-Beta. <i>Molecules</i> , 2018, 23, 2010.	3.8	16
52	Superhydrophobic bowl-like SERS substrates patterned from CMOS sensors for extracellular vesicle characterization. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8845-8852.	5.8	16
53	Two-photon excited fluorescence lifetime measurements through a double-clad photonic crystal fiber for tissue micro-endoscopy. <i>Journal of Biophotonics</i> , 2012, 5, 14-19.	2.3	15
54	Characterization of Femtosecond Laser-Induced Breakdown Spectroscopy (fsLIBS) and Applications for Biological Samples. <i>Applied Spectroscopy</i> , 2014, 68, 949-954.	2.2	15

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55	Identification of amyloid beta in small extracellular vesicles <i>via</i> Raman spectroscopy. <i>Nanoscale Advances</i> , 2021, 3, 4119-4132.	4.6	13
56	Characterisation of FXTAS related isolated intranuclear protein inclusions using laser tweezers Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 33-39.	2.5	12
57	Advanced Optical Imaging Requiring No Contrast Agentsâ€”A New Armamentarium for Medicine and Surgery. <i>Journal of Surgical Education</i> , 2005, 62, 365-370.	0.7	11
58	Multimodal electrochemical and SERS platform for chlorfenapyr detection. <i>Applied Surface Science</i> , 2021, 566, 150617.	6.1	11
59	Simple adaptive mobile phone screen illumination for dual phone differential phase contrast (DPDPC) microscopy. <i>Biomedical Optics Express</i> , 2019, 10, 4369.	2.9	11
60	SE-ECL on CMOS: a miniaturized electrochemiluminescence biosensor. <i>Lab on A Chip</i> , 2022, 22, 994-1005.	6.0	11
61	An Adaptable, Portable Microarray Reader for Biodetection. <i>Sensors</i> , 2009, 9, 2524-2537.	3.8	10
62	Enhancement of Embryonic Stem Cell Differentiation Promoted by Avian Chorioallantoic Membranes. <i>Tissue Engineering - Part A</i> , 2009, 15, 3193-3200.	3.1	10
63	Recent advances in optical label-free characterization of extracellular vesicles. <i>Nanophotonics</i> , 2022, 11, 2827-2863.	6.0	9
64	Nonlinear Excitation of Tryptophan Emission Enhanced by Silver Nanoparticles. <i>Journal of Fluorescence</i> , 2008, 18, 1151-1155.	2.5	8
65	PMLâ€™like subnuclear bodies, containing XRCC1, juxtaposed to DNA replicationâ€™based singleâ€™strand breaks. <i>FASEB Journal</i> , 2019, 33, 2301-2313.	0.5	8
66	Signal generation and Ramanâ€™resonant imaging by nonâ€™degenerate fourâ€™wave mixing under tight focusing conditions. <i>Journal of Biophotonics</i> , 2010, 3, 169-175.	2.3	7
67	Development of inexpensive blood imaging systems: where are we now?. <i>Expert Review of Medical Devices</i> , 2015, 12, 613-627.	2.8	7
68	Ultrafast Intramolecular Electron Transfer Studied by Picosecond and Stationary Raman Spectroscopy. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 1049-1055.	3.2	5
69	Precise Monitoring of Chemical Changes through Localization Analysis of Dynamic Spectra (LADS). <i>Applied Spectroscopy</i> , 2013, 67, 187-195.	2.2	4
70	Oligomerization Alters Binding Affinity between Amyloid Beta and a Modulator of Peptide Aggregation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23974-23987.	3.1	4
71	Editorial: Plasmonic Technologies for Bioanalytical Applications. <i>Frontiers in Chemistry</i> , 2019, 7, 865.	3.6	4
72	Lensless, reflection-based dark-field microscopy (RDFM) on a CMOS chip. <i>Biomedical Optics Express</i> , 2020, 11, 4942.	2.9	4

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73	Preliminary fsLIBS study on bone tumors. Biomedical Optics Express, 2015, 6, 4850.	2.9	3
74	Comment on "Label-Free Single Exosome Detection Using Frequency Locked Microtoroid Optical Resonators": ACS Photonics, 2016, 3, 716-717.	6.6	1
75	Super Resolution Optical Microscopy for Analysis of Granules in B-Cell Acute Lymphoblastic Leukemia. Blood, 2014, 124, 5347-5347.	1.4	0