

# 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	SE-ECL on CMOS: a miniaturized electrochemiluminescence biosensor. <i>Lab on A Chip</i> , 2022, 22, 994-1005.	6.0	11
2	Recent advances in optical label-free characterization of extracellular vesicles. <i>Nanophotonics</i> , 2022, 11, 2827-2863.	6.0	9
3	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
4	Identification of amyloid beta in small extracellular vesicles <i>via</i> Raman spectroscopy. <i>Nanoscale Advances</i> , 2021, 3, 4119-4132.	4.6	13
5	Multimodal electrochemical and SERS platform for chlorfenapyr detection. <i>Applied Surface Science</i> , 2021, 566, 150617.	6.1	11
6	Are plasmonic optical biosensors ready for use in point-of-need applications?. <i>Analyst, The</i> , 2020, 145, 364-384.	3.5	123
7	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
8	Hybrid Nanoplasmonic Porous Biomaterial Scaffold for Liquid Biopsy Diagnostics Using Extracellular Vesicles. <i>ACS Sensors</i> , 2020, 5, 2820-2833.	7.8	45
9	An AgNP-deposited commercial electrochemistry test strip as a platform for urea detection. <i>Scientific Reports</i> , 2020, 10, 9527.	3.3	36
10	Lensless, reflection-based dark-field microscopy (RDFM) on a CMOS chip. <i>Biomedical Optics Express</i> , 2020, 11, 4942.	2.9	4
11	Dual-phone 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
12	Editorial: Plasmonic Technologies for Bioanalytical Applications. <i>Frontiers in Chemistry</i> , 2019, 7, 865.	3.6	4
13	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
14	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
15	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
16	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
17	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
18	A Bifunctional Anti-Amyloid Blocks Oxidative Stress and the Accumulation of Intraneuronal Amyloid-Beta. <i>Molecules</i> , 2018, 23, 2010.	3.8	16

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19	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
20	Laser-induced micropore formation and modification of cartilage structure in osteoarthritis healing. <i>Journal of Biomedical Optics</i> , 2017, 22, 091515.	2.6	17
21	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
22	Fundamentals and applications of SERS-based bioanalytical sensing. <i>Nanophotonics</i> , 2017, 6, 831-852.	6.0	141
23	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
24	Novel theranostic nanoporphyrins for photodynamic diagnosis and trimodal therapy for bladder cancer. <i>Biomaterials</i> , 2016, 104, 339-351.	11.4	83
25	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
26	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
27	Comment on "Label-Free Single Exosome Detection Using Frequency Locked Microtoroid Optical Resonators". <i>ACS Photonics</i> , 2016, 3, 716-717.	6.6	1
28	Preliminary fsLIBS study on bone tumors. <i>Biomedical Optics Express</i> , 2015, 6, 4850.	2.9	3
29	Single exosome study reveals subpopulations distributed among cell lines with variability related to membrane content. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 28533.	12.2	240
30	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
31	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
32	Development, History, and Future of Automated Cell Counters. <i>Clinics in Laboratory Medicine</i> , 2015, 35, 1-10.	1.4	70
33	Combined fiber probe for fluorescence lifetime and Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8291-8301.	3.7	47
34	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
35	3D plasmonic nanobowl platform for the study of exosomes in solution. <i>Nanoscale</i> , 2015, 7, 9290-9297.	5.6	138
36	Development of inexpensive blood imaging systems: where are we now?. <i>Expert Review of Medical Devices</i> , 2015, 12, 613-627.	2.8	7

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37	Image reconstruction for structured-illumination microscopy with low signal level. Optics Express, 2014, 22, 8687.	3.4	65
38	Long term Raman spectral study of power-dependent photodamage in red blood cells. Applied Physics Letters, 2014, 104, .	3.3	17
39	Cyclin B1/Cdk1 Coordinates Mitochondrial Respiration for Cell-Cycle G2/M Progression. Developmental Cell, 2014, 29, 217-232.	7.0	292
40	Single-step preparation and image-based counting of minute volumes of human blood. Lab on A Chip, 2014, 14, 3029.	6.0	38
41	Characterization of Femtosecond Laser-Induced Breakdown Spectroscopy (fsLIBS) and Applications for Biological Samples. Applied Spectroscopy, 2014, 68, 949-954.	2.2	15
42	Super Resolution Optical Microscopy for Analysis of Granules in B-Cell Acute Lymphoblastic Leukemia. Blood, 2014, 124, 5347-5347.	1.4	0
43	Hydrophobicity-driven self-assembly of protein and silver nanoparticles for protein detection using surface-enhanced Raman scattering. Analyst, The, 2013, 138, 2906.	3.5	25
44	Fabrication and Characterization of Flexible and Tunable Plasmonic Nanostructures. Scientific Reports, 2013, 3, 3396.	3.3	114
45	Precise Monitoring of Chemical Changes through Localization Analysis of Dynamic Spectra (LADS). Applied Spectroscopy, 2013, 67, 187-195.	2.2	4
46	Characterization of high-affinity peptides and their feasibility for use in nanotherapeutics targeting leukemia stem cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 1116-1124.	3.3	26
47	Two-photon excited fluorescence lifetime measurements through a double-clad photonic crystal fiber for tissue microendoscopy. Journal of Biophotonics, 2012, 5, 14-19.	2.3	15
48	Multimodal wide-field two-photon excitation imaging: characterization of the technique for in vivo applications. Biomedical Optics Express, 2011, 2, 356.	2.9	22
49	Multivariate optical computing using a digital micromirror device for fluorescence and Raman spectroscopy. Optics Express, 2011, 19, 16950.	3.4	20
50	Cell-Phone-Based Platform for Biomedical Device Development and Education Applications. PLoS ONE, 2011, 6, e17150.	2.5	301
51	Raman and surface-enhanced Raman spectroscopic studies of the 15-mer DNA thrombin-binding aptamer. Journal of Raman Spectroscopy, 2010, 41, 241-247.	2.5	17
52	Signal generation and Raman-resonant imaging by non-degenerate four-wave mixing under tight focusing conditions. Journal of Biophotonics, 2010, 3, 169-175.	2.3	7
53	Characterisation of FXTAS related isolated intranuclear protein inclusions using laser tweezers Raman spectroscopy. Journal of Raman Spectroscopy, 2010, 41, 33-39.	2.5	12
54	Development of a time-gated system for Raman spectroscopy of biological samples. Optics Express, 2010, 18, 20049.	3.4	47

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55	An Adaptable, Portable Microarray Reader for Biodetection. <i>Sensors</i> , 2009, 9, 2524-2537.	3.8	10
56	Chemical analysis in vivo and in vitro by Raman spectroscopyâ€”from single cells to humans. <i>Current Opinion in Biotechnology</i> , 2009, 20, 63-73.	6.6	179
57	Raman Microscopy based on Doubly-Resonant Four-Wave Mixing (DR-FWM). <i>Optics Express</i> , 2009, 17, 17044.	3.4	17
58	Enhancement of Embryonic Stem Cell Differentiation Promoted by Avian Chorioallantoic Membranes. <i>Tissue Engineering - Part A</i> , 2009, 15, 3193-3200.	3.1	10
59	Nonlinear Excitation of Tryptophan Emission Enhanced by Silver Nanoparticles. <i>Journal of Fluorescence</i> , 2008, 18, 1151-1155.	2.5	8
60	Nanoconjugate based on polymalic acid for tumor targeting. <i>Chemico-Biological Interactions</i> , 2008, 171, 195-203.	4.0	80
61	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
62	Aptamer-Based SERRS Sensor for Thrombin Detection. <i>Nano Letters</i> , 2008, 8, 4386-4390.	9.1	185
63	Size-Dependent Lipid Content in Human Milk Fat Globules. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 7446-7450.	5.2	60
64	Type XXVII collagen at the transition of cartilage to bone during skeletogenesis. <i>Bone</i> , 2007, 41, 535-542.	2.9	67
65	Spheres Isolated from 9L Gliosarcoma Rat Cell Line Possess Chemoresistant and Aggressive Cancer Stem-Like Cells. <i>Stem Cells</i> , 2007, 25, 1645-1653.	3.2	132
66	Autonomic Innervation and Segmental Muscular Disconnections at the Human Pulmonary Vein-Atrial Junction. <i>Journal of the American College of Cardiology</i> , 2006, 48, 132-143.	2.8	299
67	Polycefin, a New Prototype of a Multifunctional Nanoconjugate Based on Poly( $\alpha$ -malic acid) for Drug Delivery. <i>Bioconjugate Chemistry</i> , 2006, 17, 317-326.	3.6	96
68	Induction of Potent Antitumor Immunity by Intratumoral Injection of Interleukin 23â€”Transduced Dendritic Cells. <i>Cancer Research</i> , 2006, 66, 8887-8896.	0.9	92
69	Pleiotrophin Induces Transdifferentiation of Monocytes Into Functional Endothelial Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 1273-1280.	2.4	70
70	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
71	Mutations in the gene encoding filamin B disrupt vertebral segmentation, joint formation and skeletogenesis. <i>Nature Genetics</i> , 2004, 36, 405-410.	21.4	252
72	The Effects of Structural and Microenvironmental Disorder on the Electronic Properties of Poly[2-methoxy,5-(2-ethyl-hexoxy)-1,4-phenylene vinylene] (MEHâ€”PPV) and Related Oligomers. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5133-5143.	2.6	39

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73	Ultrafast Intramolecular Electron Transfer Studied by Picosecond and Stationary Raman Spectroscopy. Bulletin of the Chemical Society of Japan, 2002, 75, 1049-1055.	3.2	5
74	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
75	Conformational effects on optical charge transfer in the emeraldine base form of polyaniline from electroabsorption measurements and semiempirical calculations. Journal of Chemical Physics, 2001, 115, 4359-4366.	3.0	20