

# Venera Weinhardt

## 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.

41 papers	751 citations	15 h-index	27 g-index
48 ext. papers	1,029 ext. citations	4.9 avg, IF	3.82 L-index

#	Paper	IF	Citations
41	A protocol for full-rotation soft X-ray tomography of single cells.. <i>STAR Protocols</i> , <b>2022</b> , 3, 101176	1.4	2
40	Using soft X-ray tomography for rapid whole-cell quantitative imaging of SARS-CoV-2-infected cells. <i>Cell Reports Methods</i> , <b>2021</b> , 1, 100117		6
39	Fish primary embryonic pluripotent cells assemble into retinal tissue mirroring in vivo early eye development. <i>ELife</i> , <b>2021</b> , 10,	8.9	6
38	Imaging Sub-cellular 3D Structures Using Soft X-ray Microscopy. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 2782-2783	0.5	
37	Advances in Soft X-ray Tomography. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 3150-3151	0.5	
36	Switchable resolution in soft x-ray tomography of single cells. <i>PLoS ONE</i> , <b>2020</b> , 15, e0227601	3.7	11
35	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells <b>2020</b> , 1613-1644		
34	GPU-accelerated ray-casting for 3D fiber orientation analysis. <i>PLoS ONE</i> , <b>2020</b> , 15, e0236420	3.7	2
33	Characterization of biomimetic silicate- and strontium-containing hydroxyapatite microparticles embedded in biodegradable electrospun polycaprolactone scaffolds for bone regeneration. <i>European Polymer Journal</i> , <b>2019</b> , 113, 67-77	5.2	30
32	In vitro degradation behaviour of hybrid electrospun scaffolds of polycaprolactone and strontium-containing hydroxyapatite microparticles. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 167, 21-32	4.7	15
31	Quanfima: An open source Python package for automated fiber analysis of biomaterials. <i>PLoS ONE</i> , <b>2019</b> , 14, e0215137	3.7	9
30	Spontaneous driving forces give rise to protein-RNA condensates with coexisting phases and complex material properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 7889-7898	11.5	186
29	Imaging cell morphology and physiology using X-rays. <i>Biochemical Society Transactions</i> , <b>2019</b> , 47, 489-503	3.1	18
28	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells <b>2019</b> , 1-32		0
27	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells <b>2019</b> , 1-32		1
26	Quantitative Microscopy Reveals Stepwise Alteration of Chromatin Structure during Herpesvirus Infection. <i>Viruses</i> , <b>2019</b> , 11,	6.2	10
25	Novel injectable gellan gum hydrogel composites incorporating Zn- and Sr-enriched bioactive glass microparticles: High-resolution X-ray microcomputed tomography, antibacterial and in vitro testing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 1313-1326	4.4	22

24	Novel self-gelling injectable hydrogel/alpha-tricalcium phosphate composites for bone regeneration: Physiochemical and microcomputer tomographical characterization. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 822-828	5.4	27
23	3D biodegradable scaffolds of polycaprolactone with silicate-containing hydroxyapatite microparticles for bone tissue engineering: high-resolution tomography and in vitro study. <i>Scientific Reports</i> , <b>2018</b> , 8, 8907	4.9	64
22	PSF correction in soft X-ray tomography. <i>Journal of Structural Biology</i> , <b>2018</b> , 204, 9-18	3.4	12
21	Effect of low-temperature plasma treatment of electrospun polycaprolactone fibrous scaffolds on calcium carbonate mineralisation.. <i>RSC Advances</i> , <b>2018</b> , 8, 39106-39114	3.7	23
20	Quantitative morphometric analysis of adult teleost fish by X-ray computed tomography. <i>Scientific Reports</i> , <b>2018</b> , 8, 16531	4.9	16
19	Identification, visualization and clonal analysis of intestinal stem cells in fish. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 3470-3480	6.6	31
18	High-resolution synchrotron X-ray analysis of bioglass-enriched hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 1194-201	5.4	14
17	Gauging low-dose X-ray phase-contrast imaging at a single and large propagation distance. <i>Optics Express</i> , <b>2016</b> , 24, 4331-48	3.3	5
16	Diagnostics of 3D Scaffolds by the Method of X-Ray Phase Contrast Visualization. <i>Russian Physics Journal</i> , <b>2014</b> , 56, 1116-1123	0.7	
15	Physical properties and biocompatibility of UHMWPE-derived materials modified by synchrotron radiation. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2014</b> , 25, 1843-52	4.5	13
14	Time-lapse X-ray phase-contrast microtomography for in vivo imaging and analysis of morphogenesis. <i>Nature Protocols</i> , <b>2014</b> , 9, 294-304	18.8	55
13	Optical and X-ray imaging analysis of chemical elements associated with microbial communities. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , <b>2013</b> , 77, 1185-1189	0.4	2
12	X-ray phase-contrast in vivo microtomography probes new aspects of <i>Xenopus</i> gastrulation. <i>Nature</i> , <b>2013</b> , 497, 374-7	50.4	63
11	High-resolution X-ray phase-contrast tomography from single-distance radiographs applied to developmental stages of <i>Xenopus laevis</i> . <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 425, 192003	0.3	4
10	Multi-contrast computed laminography at ANKA light source. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 463, 012038	0.3	6
9	Imaging methods and their application at the ANKA synchrotron light source. <i>Journal of Surface Investigation</i> , <b>2012</b> , 6, 394-397	0.5	
8	Fabrication and characterization of analyzer gratings with high aspect ratios for phase contrast imaging using a Talbot interferometer <b>2012</b> ,		15
7	Phase contrast laminography based on Talbot interferometry. <i>Optics Express</i> , <b>2012</b> , 20, 6496-508	3.3	22

6	Three-dimensional imaging of dislocations by X-ray diffraction laminography. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 244103	3.4	15
5	X-ray phase-contrast radiography using a filtered white beam with a grating interferometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 648, S42-S45	1.2	2
4	Damage of amorphous carbon induced by soft x-ray femtosecond pulses above and below the critical angle. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 031111	3.4	27
3	Cherenkov radiation from relativistic heavy ions taking account of their slowing down in radiator. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2009</b> , 267, 896-900	1.2	5
2	Compact Cell Imaging Device (CoCID) to provide insights into the cellular origins of viral infections. <i>JPhys Photonics</i> ,	2.5	3
1	Fish primary embryonic stem cells self-assemble into retinal tissue mirroring in vivo early eye development		1