Venera Weinhardt

List of Publications by Citations

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	Spontaneous driving forces give rise to protein-RNA condensates with coexisting phases and complex material properties. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 7889-7898	11.5	186
40	3D biodegradable scaffolds of polycaprolactone with silicate-containing hydroxyapatite microparticles for bone tissue engineering: high-resolution tomography and in vitro study. *Scientific Reports*, **2018**, 8, 8907	4.9	64
39	X-ray phase-contrast in vivo microtomography probes new aspects of Xenopus gastrulation. *Nature*, **2013**, 497, 374-7	50.4	63
38	Time-lapse X-ray phase-contrast microtomography for in vivo imaging and analysis of morphogenesis. *Nature Protocols*, **2014**, 9, 294-304	18.8	55
37	Identification, visualization and clonal analysis of intestinal stem cells in fish. *Development (Cambridge)*, **2016**, 143, 3470-3480	6.6	31
36	Characterization of biomimetic silicate- and strontium-containing hydroxyapatite microparticles embedded in biodegradable electrospun polycaprolactone scaffolds for bone regeneration. *European Polymer Journal*, **2019**, 113, 67-77	5.2	30
35	Novel self-gelling injectable hydrogel/alpha-tricalcium phosphate composites for bone regeneration: Physiochemical and microcomputer tomographical characterization. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 822-828	5.4	27
34	Damage of amorphous carbon induced by soft x-ray femtosecond pulses above and below the critical angle. *Applied Physics Letters*, **2009**, 95, 031111	3.4	27
33	Effect of low-temperature plasma treatment of electrospun polycaprolactone fibrous scaffolds on calcium carbonate mineralisation.. *RSC Advances*, **2018**, 8, 39106-39114	3.7	23
32	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. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 1313-1326	4.4	22
31	Phase contrast laminography based on Talbot interferometry. *Optics Express*, **2012**, 20, 6496-508	3.3	22
30	Imaging cell morphology and physiology using X-rays. *Biochemical Society Transactions*, **2019**, 47, 489-508	3.1	18
29	Quantitative morphometric analysis of adult teleost fish by X-ray computed tomography. *Scientific Reports*, **2018**, 8, 16531	4.9	16
28	In vitro degradation behaviour of hybrid electrospun scaffolds of polycaprolactone and strontium-containing hydroxyapatite microparticles. *Polymer Degradation and Stability*, **2019**, 167, 21-32	4.7	15
27	Fabrication and characterization of analyzer gratings with high aspect ratios for phase contrast imaging using a Talbot interferometer **2012**,		15
26	Three-dimensional imaging of dislocations by X-ray diffraction laminography. *Applied Physics Letters* , **2012**, 101, 244103	3.4	15
25	High-resolution synchrotron X-ray analysis of bioglass-enriched hydrogels. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 1194-201	5.4	14

24	Physical properties and biocompatibility of UHMWPE-derived materials modified by synchrotron radiation. *Journal of Materials Science: Materials in Medicine*, **2014**, 25, 1843-52	4.5	13
23	PSF correction in soft X-ray tomography. *Journal of Structural Biology*, **2018**, 204, 9-18	3.4	12
22	Switchable resolution in soft x-ray tomography of single cells. *PLoS ONE*, **2020**, 15, e0227601	3.7	11
21	Quantitative Microscopy Reveals Stepwise Alteration of Chromatin Structure during Herpesvirus Infection. *Viruses*, **2019**, 11,	6.2	10
20	Quanfima: An open source Python package for automated fiber analysis of biomaterials. *PLoS ONE*, **2019**, 14, e0215137	3.7	9
19	Multi-contrast computed laminography at ANKA light source. *Journal of Physics: Conference Series*, **2013**, 463, 012038	0.3	6
18	Using soft X-ray tomography for rapid whole-cell quantitative imaging of SARS-CoV-2-infected cells. *Cell Reports Methods*, **2021**, 1, 100117		6
17	Fish primary embryonic pluripotent cells assemble into retinal tissue mirroring in vivo early eye development. *ELife*, **2021**, 10,	8.9	6
16	Cherenkov radiation from relativistic heavy ions taking account of their slowing down in radiator. *Nuclear Instruments & Methods in Physics Research B*, **2009**, 267, 896-900	1.2	5
15	Gauging low-dose X-ray phase-contrast imaging at a single and large propagation distance. *Optics Express*, **2016**, 24, 4331-48	3.3	5
14	High-resolution X-ray phase-contrast tomography from single-distance radiographs applied to developmental stages of Xenopus laevis. *Journal of Physics: Conference Series*, **2013**, 425, 192003	0.3	4
13	Compact Cell Imaging Device (CoCID) to provide insights into the cellular origins of viral infections. *JPhys Photonics*,	2.5	3
12	Optical and X-ray imaging analysis of chemical elements associated with microbial communities. *Bulletin of the Russian Academy of Sciences: Physics*, **2013**, 77, 1185-1189	0.4	2
11	X-ray phase-contrast radiography using a filtered white beam with a grating interferometer. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2011**, 648, S42-S45	1.2	2
10	A protocol for full-rotation soft X-ray tomography of single cells.. *STAR Protocols*, **2022**, 3, 101176	1.4	2
9	GPU-accelerated ray-casting for 3D fiber orientation analysis. *PLoS ONE*, **2020**, 15, e0236420	3.7	2
8	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells **2019**, 1-32		1
7	Fish primary embryonic stem cells self-assemble into retinal tissue mirroring in vivo early eye development		1

6	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells **2019**, 1-32	0
5	Imaging Sub-cellular 3D Structures Using Soft X-ray Microscopy. *Microscopy and Microanalysis*, **2020**, 26, 2782-2783	0.5
4	Advances in Soft X-ray Tomography. *Microscopy and Microanalysis*, **2020**, 26, 3150-3151	0.5
3	Diagnostics of 3D Scaffolds by the Method of X-Ray Phase Contrast Visualization. *Russian Physics Journal*, **2014**, 56, 1116-1123	0.7
2	Imaging methods and their application at the ANKA synchrotron light source. *Journal of Surface Investigation*, **2012**, 6, 394-397	0.5
1	Putting Molecules in the Picture: Using Correlated Light Microscopy and Soft X-Ray Tomography to Study Cells **2020**, 1613-1644	