

# Jan Garrevoet

## List of Publications by Year in descending order

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29  
papers

569  
citations

687363

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h-index

642732

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g-index

30  
all docs

30  
docs citations

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times ranked

882  
citing authors

#	ARTICLE	IF	CITATIONS
1	Incremental Elemental Distribution in Chimpanzee Cellular Cementum: Insights from Synchrotron X-Ray Fluorescence and Implications for Life-History Inferences. , 2022, , 138-154.		0
2	Spatial Distribution of Intracellular Ion Concentrations in Aggregate-Forming HeLa Cells Analyzed by XRF Imaging. ChemistryOpen, 2022, 11, e202200024.	1.9	4
3	Sub-micrometer focusing setup for high-pressure crystallography at the Extreme Conditions beamline at PETRA-III. Journal of Synchrotron Radiation, 2022, 29, 654-663.	2.4	5
4	A Standalone, Battery-Free Light Dosimeter for Ultraviolet to Infrared Light. Advanced Functional Materials, 2022, 32, .	14.9	17
5	Multi-beam X-ray ptychography using coded probes for rapid non-destructive high resolution imaging of extended samples. Scientific Reports, 2022, 12, 6203.	3.3	9
6	Four-Fold Multi-Modal X-ray Microscopy Measurements of a Cu(In,Ga)Se <sub>2</sub> Solar Cell. Materials, 2021, 14, 228.	2.9	12
7	Micro x-ray fluorescence analysis of trace element distribution in frozen hydrated HeLa cells at the P06 beamline at Petra III. Biointerphases, 2021, 16, 011004.	1.6	4
8	Upscaling of multi-beam x-ray ptychography for efficient x-ray microscopy with high resolution and large field of view. Applied Physics Letters, 2021, 118, .	3.3	11
9	Comparison of XBIC and LBIC measurements of a fully encapsulated c-Si solar cell. , 2021, , .		3
10	Tracking dynamic structural changes in catalysis by rapid 2D-XANES microscopy. Journal of Synchrotron Radiation, 2021, 28, 1518-1527.	2.4	4
11	Determination of the through-plane profile of vanadium species in hydrated Nafion studied with micro X-ray absorption near-edge structure spectroscopy – proof of concept. Journal of Synchrotron Radiation, 2021, 28, 1865-1873.	2.4	6
12	Synchrotron X-ray fluorescence imaging of strontium incorporated into the enamel and dentine of wild-shot orangutan canine teeth. Archives of Oral Biology, 2020, 119, 104879.	1.8	11
13	Radiation Dose-Enhancement Is a Potent Radiotherapeutic Effect of Rare-Earth Composite Nanoscintillators in Preclinical Models of Glioblastoma. Advanced Science, 2020, 7, 2001675.	11.2	36
14	Growth and development of the third permanent molar in Paranthropus robustus from Swartkrans, South Africa. Scientific Reports, 2020, 10, 19053.	3.3	7
15	PtyNAMi: ptychographic nano-analytical microscope. Journal of Applied Crystallography, 2020, 53, 957-971.	4.5	25
16	Hard X-ray wavefront correction via refractive phase plates made by additive and subtractive fabrication techniques. Journal of Synchrotron Radiation, 2020, 27, 1121-1130.	2.4	19
17	Synchrotron X-ray fluorescence mapping of Ca, Sr and Zn at the neonatal line in human deciduous teeth reflects changing perinatal physiology. Archives of Oral Biology, 2019, 104, 90-102.	1.8	28
18	Ptychographic Nano-Analytical Microscope (PtyNAMi) at PETRA III: signal-to-background optimization for imaging with high sensitivity. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
19	Incremental distribution of strontium and zinc in great ape and fossil hominin cementum using synchrotron X-ray fluorescence mapping. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170626.	3.4	36
20	Nanofocusing with aberration-corrected rotationally asymmetric parabolic refractive X-ray lenses. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 108-115.	2.4	16
21	Fast XANES fluorescence imaging using a Maia detector. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 892-898.	2.4	12
22	Scanning Hard X-Ray Microscopy Based on Be CRLs. <i>Microscopy and Microanalysis</i> , 2018, 24, 188-189.	0.4	4
23	Salinity, dissolved organic carbon, and interpopulation variability hardly influence the accumulation and effect of copper in <i>Mytilus edulis</i> . <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 2074-2082.	4.3	8
24	Perfect X-ray focusing via fitting corrective glasses to aberrated optics. <i>Nature Communications</i> , 2017, 8, 14623.	12.8	134
25	Fast X-ray microfluorescence imaging with submicrometer-resolution integrating a Maia detector at beamline P06 at PETRA-III. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1550-1560.	2.4	49
26	Probing Intracellular Element Concentration Changes during Neutrophil Extracellular Trap Formation Using Synchrotron Radiation Based X-Ray Fluorescence. <i>PLoS ONE</i> , 2016, 11, e0165604.	2.5	17
27	Development and Applications of a Laboratory Micro X-ray Fluorescence ( $\mu$ XRF) Spectrometer Using Monochromatic Excitation for Quantitative Elemental Analysis. <i>Analytical Chemistry</i> , 2015, 87, 6544-6552.	6.5	21
28	Salinity and dissolved organic carbon both affect copper toxicity in mussel larvae: Copper speciation or competition cannot explain everything. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1330-1336.	4.3	30
29	Methodology toward 3D Micro X-ray Fluorescence Imaging Using an Energy Dispersive Charge-Coupled Device Detector. <i>Analytical Chemistry</i> , 2014, 86, 11826-11832.	6.5	36