

# Ina Reiche

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Proton beam irradiation induces invisible modifications under the surface of painted parchment. <i>Scientific Reports</i> , 2022, 12, 113.	3.3	6
2	Chemie der Kunst. <i>Materialprüfung/Materials Testing</i> , 2022, 45, 485-503.	2.2	0
3	Studying glass on metal: Raman analysis of medieval champlevé enamelled objects. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 23-34.	2.5	1
4	Sunset and moonshine: Variable blue and yellow pigments used by Caspar David Friedrich in different creative periods revealed by in situ XRF imaging. <i>X-Ray Spectrometry</i> , 2021, 50, 341-350.	1.4	5
5	In situ XRF study of black colouring matter of the Palaeolithic figures in the Font-de-Gaume cave. <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2449-2459.	3.0	5
6	New results with regard to the Flora bust controversy: radiocarbon dating suggests nineteenth century origin. <i>Scientific Reports</i> , 2021, 11, 8249.	3.3	7
7	Relative chronology of Palaeolithic drawings of the Great Ceiling, Rouffignac cave, by chemical, stylistic and superimposition studies. <i>Journal of Archaeological Science: Reports</i> , 2020, 29, 102006.	0.5	4
8	Analyses non invasives in situ des œuvres préhistoriques de la grotte de Font-de-Gaume pour une meilleure connaissance du décor pariétal polychrome et de son organisation. <i>Paleo</i> , 2020, , 262-269.	0.1	1
9	The use of Cobalt in 18th Dynasty Blue Glass from Amarna: the results from an on-site analysis using portable XRF technology. <i>Science and Technology of Archaeological Research</i> , 2019, 5, 36-52.	2.4	4
10	Combined Non-invasive PIXE/PIGE Analyses of Mammoth Ivory from Aurignacian Archaeological Sites. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7428-7432.	13.8	10
11	Kombinierte nicht-invasive PIXE/PIGE-Analysen von aurignacienzeitlichen Objekten aus Mammutelfenbein bedeutender archäologischer Fundstätten. <i>Angewandte Chemie</i> , 2018, 130, 7550-7554.	2.0	0
12	The three-dimensional arrangement of the mineralized collagen fibers in elephant ivory and its relation to mechanical and optical properties. <i>Acta Biomaterialia</i> , 2018, 72, 342-351.	8.3	24
13	Relation between the Macroscopic Pattern of Elephant Ivory and Its Three-Dimensional Micro-Tubular Network. <i>PLoS ONE</i> , 2017, 12, e0166671.	2.5	20
14	Nanoscale modifications in the early heating stages of bone are heterogeneous at the microstructural scale. <i>PLoS ONE</i> , 2017, 12, e0176179.	2.5	9
15	New insights into the painting stratigraphy of L'Homme blessé by Gustave Courbet combining scanning macro-XRF and confocal micro-XRF. , 2017, , 191-203.		0
16	Raman Investigations to Identify Corallium rubrum in Iron Age Jewelry and Ornaments. <i>Minerals (Basel, Switzerland)</i> , 2016, 6, 56.	2.0	10
17	New insights into the painting stratigraphy of L'Homme blessé by Gustave Courbet combining scanning macro-XRF and confocal micro-XRF. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	16
18	Rapid Quantification of Bone Collagen Content by ATR-FTIR Spectroscopy. <i>Radiocarbon</i> , 2016, 58, 131-145.	1.8	85

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19	Confocal XRF depth profiling non-destructively reveals the original blue pigments in a Renaissance painting by Caroto. <i>Studies in Conservation</i> , 2016, 61, 102-112.	1.1	6
20	Efficient quantification procedures for data evaluation of portable X-ray fluorescence – Potential improvements for Palaeolithic cave art knowledge. <i>Journal of Archaeological Science: Reports</i> , 2016, 10, 878-886.	0.5	5
21	F-content variation in mammoth ivory from Aurignacian contexts: Preservation, alteration, and implications for ivory-procurement strategies. <i>Quaternary International</i> , 2016, 403, 40-50.	1.5	14
22	Emerging Approaches in Synchrotron Studies of Materials from Cultural and Natural History Collections. <i>Topics in Current Chemistry</i> , 2016, 374, 7.	5.8	17
23	Informative Potential of Multiscale Observations in Archaeological Biominerals Down to Nanoscale. , 2016, , 75-122.		0
24	Toward a three-dimensional vision of the different compositions and the stratigraphy of the painting L'Homme blessé by G. Courbet: coupling SEM-EDX and confocal micro-XRF. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 121, 903-913.	2.3	14
25	Palaeolithic paint palettes used at La Garma Cave (Cantabria, Spain) investigated by means of combined in situ and synchrotron X-ray analytical methods. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 767-776.	3.0	26
26	Non-invasive quantitative micro-PIXE-RBS/EBS/EBS imaging reveals the lost polychromy and gilding of the Neo-Assyrian ivories from the Louvre collection. <i>Talanta</i> , 2015, 137, 100-108.	5.5	14
27	Direct Dating and Physico-Chemical Analyses Cast Doubts on the Coexistence of Humans and Dwarf Hippos in Cyprus. <i>PLoS ONE</i> , 2015, 10, e0134429.	2.5	23
28	Synchrotron Methods: Color in Paints and Minerals. , 2014, , 209-239.		5
29	One-Step Synthesis of Collagen Hybrid Gold Nanoparticles and Formation on Egyptian-like Gold-Plated Archaeological Ivory. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8363-8366.	13.8	34
30	Screening in situ bone and teeth preservation by ATR-FTIR mapping. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 416, 110-119.	2.3	43
31	Micro-PIXE/PIGE analysis of Palaeolithic mammoth ivory: Potential chemical markers of provenance and relative dating. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 416, 133-141.	2.3	15
32	Early diagenesis of elephant tusk in marine environment. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 416, 120-132.	2.3	16
33	Synchrotron X-Ray Microanalysis and Imaging of Synthetic Biological Calcium Carbonate in Comparison With Archaeological Samples Originating from the Large Cave of Arcy-sur-Cure (28000-24500 BP, Yonne, France). <i>Microscopy and Microanalysis</i> , 2013, 19, 1523-1534.	0.4	8
34	Beyond the Great Wall: Gold of the Silk Roads and the First Empire of the Steppes. <i>Analytical Chemistry</i> , 2013, 85, 1650-1656.	6.5	17
35	The surface layer of pharmaceutical compacts: The role of the punch surface and its impact on the mechanical properties of the compacts. <i>International Journal of Pharmaceutics</i> , 2013, 442, 42-48.	5.2	13
36	Discovering Vanished Paints and Naturally Formed Gold Nanoparticles on 2800 Years Old Phoenician Ivories Using SR-FF-MicroXRF with the Color X-ray Camera. <i>Analytical Chemistry</i> , 2013, 85, 5857-5866.	6.5	28

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37	Non-Destructive Portable Analytical Techniques for Carbon <i>In Situ</i> Screening Before Sampling for Dating Prehistoric Rock Paintings. <i>Radiocarbon</i> , 2013, 55, 436-444.	1.8	17
38	Can we Use Calcined Bones for <sup>14</sup> C Dating the Paleolithic?. <i>Radiocarbon</i> , 2013, 55, 1409-1421.	1.8	32
39	Non-Destructive Portable Analytical Techniques for Carbon In-Situ Screening Before Sampling for Dating Prehistoric Rock Paintings. <i>Radiocarbon</i> , 2013, 55, .	1.8	5
40	Can We Use Calcined Bones for Radiocarbon Dating the Paleolithic?. <i>Radiocarbon</i> , 2013, 55, .	1.8	3
41	Depth profiling reveals multiple paint layers of Louvre Renaissance paintings using non-invasive compact confocal micro-X-ray fluorescence. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1715.	3.0	29
42	The first <i>in situ</i> micro-Raman spectroscopic analysis of prehistoric cave art of Rouffignac St-Cernin, France. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1637-1643.	2.5	73
43	Synchrotron radiation and laboratory micro X-ray computed tomography – useful tools for the material identification of prehistoric objects made of ivory, bone or antler. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1802.	3.0	27
44	Imaging fossil bone alterations at the microscale by SR-FTIR microspectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 922.	3.0	39
45	Differentiation of archaeological ivory and bone materials by micro-PIXE/PIGE with emphasis on two Upper Palaeolithic key sites: Abri Pataud and Isturitz, France. <i>Journal of Archaeological Science</i> , 2011, 38, 3234-3243.	2.4	41
46	Confocal micro-X-ray fluorescence analysis as a new tool for the non-destructive study of the elemental distributions in pharmaceutical tablets. <i>Talanta</i> , 2011, 85, 556-561.	5.5	27
47	Microbial attack of archaeological bones versus high concentrations of heavy metals in the burial environment. A case study of animal bones from a mediaeval copper workshop in Paris. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 310, 39-51.	2.3	53
48	Towards a Better Understanding of Alteration Phenomena of Archaeological Bone by a Closer Look at the Organic/Mineral Association at Micro- and Nanoscale. Preliminary Results on Neolithic Samples from Chalais Lake Site 19, Jura, France. <i>ArcheoSciences</i> , 2011, , 143-158.	0.1	5
49	Approche analytique pour l'étude des ivoires archéologiques. Les défenses d'éléphant du site de Jinsha (1200-650 ABC, Sichuan, Chine). <i>ArcheoSciences</i> , 2011, , 167-177.	0.1	6
50	Application des micro-spectrométries infrarouge et Raman à l'étude des processus diagnostiques altérant les ossements paléolithiques. <i>ArcheoSciences</i> , 2011, , 179-190.	0.1	6
51	Artificially Heated Bone at Low Temperatures: A Quantitative Scanning-small-angle X-Ray Scattering Imaging Study of the Mineral Particle Size. <i>ArcheoSciences</i> , 2011, , 191-199.	0.1	6
52	Les ivoires d'Arslan Tash (Syrie) ont une étude de la collection du Musée du Louvre: mise en œuvre du matériau, traces de polychromie et de dorure, état de conservation. <i>ArcheoSciences</i> , 2011, , 283-295.	0.1	5
53	Rectangular Beads from the Final Gravettian Level of the Abri Pataud: Raw Material Identification and its Archaeological Implications. <i>ArcheoSciences</i> , 2011, , 259-271.	0.1	9
54	History and Surface Condition of the Lewis Chessmen in the Collection of the National Museums Scotland (Hebrides, late 12th-early 13th centuries). <i>ArcheoSciences</i> , 2011, , 249-258.	0.1	3

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55	Microscale imaging of the preservation state of 5,000-year-old archaeological bones by synchrotron infrared microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 2491-2499.	3.7	43
56	New parameters for the characterization of diagenetic alterations and heat-induced changes of fossil bone mineral using Fourier transform infrared spectrometry. <i>Journal of Archaeological Science</i> , 2010, 37, 2265-2276.	2.4	140
57	Color origin and heat evidence of paleontological bones: Case study of blue and gray bones from San Josecito Cave, Mexico. <i>American Mineralogist</i> , 2009, 94, 27-33.	1.9	23
58	Development of a nondestructive method for underglaze painted tiles—demonstrated by the analysis of Persian objects from the nineteenth century. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1025-1041.	3.7	30
59	Dating study of two rock crystal carvings by surface microtopography and $\text{He}^+$ ion beam analyses of hydrogen. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 871-878.	2.3	13
60	PIXE measurements of Renaissance silverpoint drawings at VERA. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 2279-2285.	1.4	18
61	Analysis of trace elements in gold alloys by SR-XRF at high energy at the BAMline. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2008, 266, 2334-2338.	1.4	40
62	Characterization of archaeological burnt bones: contribution of a new analytical protocol based on derivative FTIR spectroscopy and curve fitting of the $\nu_1$ $\nu_2$ $\nu_3$ $\nu_4$ domain. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 392, 1479-1488.	3.7	70
63	Effects and efficiency of consolidation treatments on Palaeolithic reindeer antler. Multi-analytical study by means of XRD, FT-IR microspectroscopy, SEM, TEM and $\text{He}^+$ -PIXE/PIGE analyses. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 171-177.	2.3	10
64	Microanalysis and synthesis of calcite. Growth mechanisms on prehistoric paintings in the Large Cave, Arcy-sur-Cure (Yonne, France). <i>X-Ray Spectrometry</i> , 2008, 37, 424-434.	1.4	16
65	MULTIANALYTICAL STUDY OF PALAEOOLITHIC REINDEER ANTLER. DISCOVERY OF ANTLER TRACES IN LASCAUX PIGMENTS BY TEM. <i>Archaeometry</i> , 2008, 50, 516-534.	1.3	21
66	Synchrotron radiation and cultural heritage: combined XANES/XRF study at Mn K-edge of blue, grey or black coloured palaeontological and archaeological bone material. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 799.	3.0	25
67	Biotic versus abiotic calcite formation on prehistoric cave paintings: the Arcy-sur-Cure—Grande Grotte™ (Yonne, France) case. <i>Geological Society Special Publication</i> , 2007, 279, 185-197.	1.3	8
68	SY-XRF study of Hans Baldung Grien silverpoint drawings and the silver stylus from the—Karlsruhe sketchbook™. <i>X-Ray Spectrometry</i> , 2007, 36, 173-177.	1.4	6
69	Synchrotron Radiation in Art and Archaeology 2006—a truly interdisciplinary event. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 90, 1-1.	2.3	4
70	3D Micro-PIXE at atmospheric pressure: A new tool for the investigation of art and archaeological objects. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 264, 383-388.	1.4	21
71	Chapter 8 Fluorine and Its Relevance for Archaeological Studies. <i>Advances in Fluorine Science</i> , 2006, 2, 253-283.	0.1	6
72	Surface Complexation of Zinc Cation with Hydroxyapatite, <i>Molecular Dynamics and Surface Durability. Interface Science and Technology</i> , 2006, 11, 301-323.	3.3	4

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73	New insights into the colour origin of archaeological Egyptian blue and green by XAFS at the Cu K-edge. <i>X-Ray Spectrometry</i> , 2006, 35, 141-145.	1.4	38
74	Analyses of hydrogen in quartz and in sapphire using depth profiling by ERDA at atmospheric pressure: Comparison with resonant NRA and SIMS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 249, 608-611.	1.4	13
75	Spatially resolved synchrotron radiation induced X-ray fluorescence analyses of rare Rembrandt silverpoint drawings. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 83, 169-173.	2.3	17
76	Three-dimensional micro-XRF investigations of paint layers with a tabletop setup. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 41-47.	2.9	131
77	Fingerprinting ancient gold by measuring Pt with spatially resolved high energy Sy-XRF. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 240, 505-511.	1.4	29
78	An external PIXE study: Mughal painting pigments. <i>X-Ray Spectrometry</i> , 2005, 34, 42-45.	1.4	5
79	In situ Raman spectroscopic investigations of the adorning gemstones on the reliquary Heinrich's Cross from the treasury of Basel Cathedral. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 719-725.	2.5	42
80	Spatially resolved synchrotron-induced X-ray fluorescence analyses of metal point drawings and their mysterious inscriptions. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1657-1662.	2.9	22
81	Following the traces of Albrecht Dürer: analysis of silverpoint drawings by spatially resolved synchrotron-induced X-ray fluorescence analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2004, 226, 83-91.	1.4	15
82	A new 3D micro X-ray fluorescence analysis set-up – First archaeometric applications. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 211, 259-264.	1.4	240
83	Antike Gläser und versteinertes Elfenbein: Röntgenanalyse in der Kunst. <i>Physik in Unserer Zeit</i> , 2003, 34, 80-86.	0.0	4
84	A multi-analytical study of bone diagenesis: the Neolithic site of Bercy (Paris, France). <i>Measurement Science and Technology</i> , 2003, 14, 1608-1619.	2.6	89
85	Manganese accommodation in fossilised mastodon ivory and heat-induced colour transformation: Evidence by EXAFS. <i>European Journal of Mineralogy</i> , 2002, 14, 1069-1073.	1.3	12
86	FLUORINE ANALYSIS IN BIOGENIC AND GEOLOGICAL APATITE BY ANALYTICAL TRANSMISSION ELECTRON MICROSCOPY AND NUCLEAR REACTION ANALYSIS. <i>Instrumentation Science and Technology</i> , 2002, 20, 211-231.	0.8	9
87	The crystallinity of ancient bone and dentine: new insights by transmission electron microscopy. <i>Archaeometry</i> , 2002, 44, 447-459.	1.3	73
88	From mastodon ivory to gemstone: The origin of turquoise color in odontolite. <i>American Mineralogist</i> , 2001, 86, 1519-1524.	1.9	33
89	Diffusion in Archaeological Bone. <i>Defect and Diffusion Forum</i> , 2001, 194-199, 953-960.	0.4	7
90	Heat induced transformation of fossil mastodon ivory into turquoise – odontolite™. Structural and elemental characterisation. <i>Solid State Sciences</i> , 2000, 2, 625-636.	3.2	21

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91	Comparative analysis of odontolite, heated fossil ivory and blue fluorapatite by PIXE/PIGE and TEM. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 737-742.	1.4	12
92	Trace element composition of archaeological bones and post-mortem alteration in the burial environment. Nuclear Instruments & Methods in Physics Research B, 1999, 150, 656-662.	1.4	65
93	Archaeological Bone from Macro- to Nanoscale: Heat-Induced Modifications at Low Temperatures. Journal of Nano Research, 0, 8, 157-172.	0.8	16