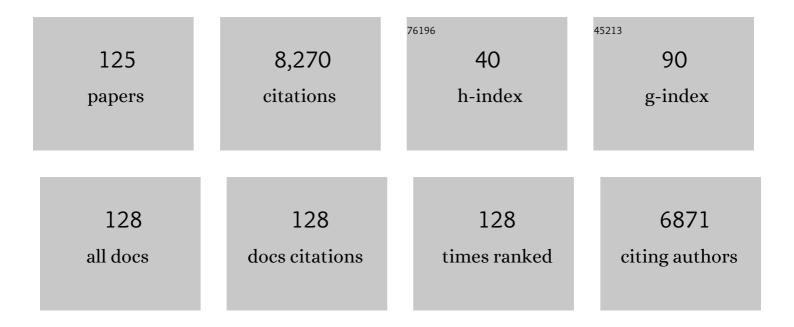
Edward P Vicenzi

List of Publications by Year in descending order

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P VICENZI

#	Article	IF	CITATIONS
1	Imaging Rough Paper to Evaluate Methods for Soot Removal. Microscopy Today, 2022, 30, 30-33.	0.2	3
2	Assessment of the reason for the vitrification of a wall at a hillfort. The example of Broborg in Sweden. Journal of Archaeological Science: Reports, 2022, 43, 103459.	0.2	1
3	Major to trace element imaging and analysis of iron age glasses using stage scanning in the analytical dual beam microscope (tandem). Heritage Science, 2022, 10, .	1.0	3
4	Reproduction of melting behavior for vitrified hillforts based on amphibolite, granite, and basalt lithologies. Scientific Reports, 2021, 11, 1272.	1.6	9
5	A dual beam SEM-based EDS and micro-XRF method for the analysis of large-scale Mesoamerican obsidian tablets. Journal of Archaeological Science: Reports, 2021, 35, 102781.	0.2	2
6	Hydration of Hydrophilic Cloth Face Masks Enhances the Filtration of Nanoparticles. ACS Applied Nano Materials, 2021, 4, 2694-2701.	2.4	27
7	Home- and Laboratory-based Microscopy of Face Covering Materials. Microscopy and Microanalysis, 2021, 27, 1292-1294.	0.2	1
8	Microanalysis of Glass Fluid Storage Vials from The Invertebrate Zoology Collection at the National Museum of Natural History. Microscopy and Microanalysis, 2021, 27, 3208-3210.	0.2	1
9	Elemental Mapping of Jade by pXRF and SEM-based Micro-XRF: A Comparative Study. Microscopy and Microanalysis, 2021, 27, 2556-2558.	0.2	0
10	An in-depth look at how physical properties of cleaning materials affect the removal of soot from rough papers. Microscopy and Microanalysis, 2021, 27, 2810-2812.	0.2	0
11	Quantitative Analysis of Obsidian and Determination of Source Provenance Using an Analytical Dual Beam SEM. Microscopy and Microanalysis, 2021, 27, 2560-2563.	0.2	1
12	Filter Inserts Impact Cloth Mask Performance against Nano- to Micro-Sized Particles. ACS Nano, 2021, 15, 12860-12868.	7.3	13
13	Nondestructive Microanalysis of Thin-Film Coatings on Historic Metal Threads. Analytical Chemistry, 2021, 93, 12906-12913.	3.2	1
14	Applying laboratory methods for durability assessment of vitrified material to archaeological samples. Npj Materials Degradation, 2021, 5, .	2.6	5
15	Seneca sandstone: a heritage stone from the USA. Geological Society Special Publication, 2020, 486, 163-176.	0.8	3
16	Filtration Efficiencies of Nanoscale Aerosol by Cloth Mask Materials Used to Slow the Spread of SARS-CoV-2. ACS Nano, 2020, 14, 9188-9200.	7.3	213
17	Nanoscale structure and compositional analysis of manganese oxide coatings on the Smithsonian Castle, Washington, DC. Chemical Geology, 2020, 537, 119486.	1.4	4
18	Nanoscale Analysis of Manganeous Oxide Rock Varnish on the Smithsonian Castle, Washington, DC. Microscopy and Microanalysis, 2019, 25, 2440-2441.	0.2	0

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19	Examination of Heritage and Geological Materials Using Correlated Electron- and X-ray-Beam Microanalysis in the SEM. Microscopy and Microanalysis, 2019, 25, 2482-2483.	0.2	0
20	Preâ€Viking Swedish hillfort glass: A prospective longâ€ŧerm alteration analogue for vitrified nuclear waste. International Journal of Applied Glass Science, 2018, 9, 540-554.	1.0	13
21	Harden up: metal acquisition in the weaponized ovipositors of aculeate hymenoptera. Zoomorphology, 2018, 137, 389-406.	0.4	9
22	Chemical Compound Classification by Elemental Signatures in Castle Dust Using SEM Automated X-ray Particle Analysis. Microscopy and Microanalysis, 2018, 24, 718-719.	0.2	2
23	EMAS 2017 Workshop - 15th European Workshop on Modern Developments and Applications in Microbeam Analysis & IUMAS-7 Meeting - 7th Meeting of the International union of Microbeam Analysis Societies. IOP Conference Series: Materials Science and Engineering, 2018, 304, 011001.	0.3	1
24	Stone-Cold Low Temperature Cathodoluminescence Spectrometry of Quartz (SiO2). Microscopy and Microanalysis, 2018, 24, 2014-2015.	0.2	0
25	Understanding Effects Responsible for Pinhole Development and Coating Adhesion for Atomic Layer Deposited Coatings on Glass. Microscopy and Microanalysis, 2018, 24, 2172-2173.	0.2	0
26	Compositional Imaging and Analysis of Late Iron Age Glass from the Broborg Vitrified Hillfort, Sweden. Microscopy and Microanalysis, 2018, 24, 2134-2135.	0.2	2
27	Photoluminescence Spectroscopy of ZnO and TiCh Pigments. Microscopy and Microanalysis, 2018, 24, 2150-2151.	0.2	0
28	Microscopic Identification of Micro-Organisms on Pre-Viking Swedish Hillfort Glass. Microscopy and Microanalysis, 2018, 24, 2136-2137.	0.2	1
29	Laser Cleaning Iron Meteorite Corrosion, A Microstructural and Compositional Examination. Microscopy and Microanalysis, 2018, 24, 2160-2161.	0.2	0
30	The Anoka, Minnesota iron meteorite as parent to Hopewell meteoritic metal beads from Havana, Illinois. Journal of Archaeological Science, 2017, 81, 13-22.	1.2	9
31	Determination of Major, Minor, and Trace Elements in Jadeite using Scanning micro-X-ray Fluorescence. Microscopy and Microanalysis, 2017, 23, 1008-1009.	0.2	1
32	From Earth to Outer Space: Laser cleaning semiprecious quartz and a novel application for meteoritic metal. , 2017, , .		3
33	Use of Mineral Reference Standards in EPMA: Instrumental Calibration, Standards Comparison, and Quality Control. Microscopy and Microanalysis, 2017, 23, 496-497.	0.2	1
34	Uranium irradiation history of carbonado diamond; implications for Paleoarchean oxidation in the São Francisco craton. Geology, 2016, 44, 527-530.	2.0	7
35	Ni/S/Cl systematics and the origin of impactâ€melt glasses in Martian meteorite Elephant Moraine 79001. Meteoritics and Planetary Science, 2016, 51, 663-680.	0.7	3
36	Rock varnish on architectural stone: microscopy and analysis of nanoscale manganese oxide deposits on the Smithsonian Castle, Washington, DC. Heritage Science, 2016, 4, .	1.0	16

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37	Optimizing compositional images of daguerreotype photographs using post processing methods. Heritage Science, 2016, 4, .	1.0	5
38	Exposure and analysis of microparticles embedded in silica aerogel keystones using NF3-mediated electron beam-induced etching and energy-dispersive X-ray spectroscopy. Meteoritics and Planetary Science, 2016, 51, 1223-1232.	0.7	0
39	Modal abundances of pyroxene, olivine, and mesostasis in nakhlites: Heterogeneity, variation, and implications for nakhlite emplacement. Meteoritics and Planetary Science, 2015, 50, 1497-1511.	0.7	21
40	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
41	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
42	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
43	Mars' Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
44	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	6.0	224
45	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
46	Understanding irregular shell formation of <i>Nautilus</i> in aquaria: Chemical composition and structural analysis. Zoo Biology, 2014, 33, 285-294.	0.5	6
47	Interdisciplinary X-Ray Microanalysis: From Planets and Comets to Artifacts and Fine Art. Microscopy and Microanalysis, 2014, 20, 716-717.	0.2	Ο
48	Morphologies, Isotopes, Crystal Structures, and Microstructures of Presolar Al2O3 Grains: a NanoSIMS, EBSD, EDS, CL, and FIB-TEM study. Microscopy and Microanalysis, 2014, 20, 1696-1697.	0.2	0
49	Examination of a 19 th Century Daguerreotype Photograph using High Resolution Scanning Transmission Electron Microscopy for 2D and 3D Nanoscale Imaging and Analysis. Microscopy and Microanalysis, 2014, 20, 2000-2001.	0.2	6
50	Investigation of Atomic Layer Deposited Metal Oxide Layers for Conservation of Metal Cultural Heritage Objects*. Microscopy and Microanalysis, 2014, 20, 2002-2003.	0.2	0
51	Micro XRF Imaging of Daguerreotypes. Microscopy and Microanalysis, 2014, 20, 2028-2029.	0.2	2
52	Manganese in Black Crusts on Seneca Sandstone. Microscopy and Microanalysis, 2014, 20, 2044-2045.	0.2	4
53	"Live―Prussian blue fading by time-resolved X-ray absorption spectroscopy. Applied Physics A: Materials Science and Processing, 2013, 111, 15-22.	1.1	29
54	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932.	6.0	327

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55	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505.	6.0	280
56	Why does Prussian blue fade? Understanding the role(s) of the substrate. Journal of Analytical Atomic Spectrometry, 2013, 28, 1600.	1.6	42
57	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
58	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
59	Element abundances, patterns, and mobility in Nakhlite Miller Range 03346 and implications for aqueous alteration. Geochimica Et Cosmochimica Acta, 2013, 112, 208-225.	1.6	17
60	Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072.	6.0	326
61	The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463.	6.0	134
62	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670.	6.0	215
63	Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357.	6.0	103
64	A Study of Cathodoluminescence and Trace Element Compositional Zoning in Natural Quartz from Volcanic Rocks: Mapping Titanium Content in Quartz. Microscopy and Microanalysis, 2012, 18, 1322-1341.	0.2	63
65	Drilling Down Into The Cathodoluminescence And Compositional Variation In Jadeite. Microscopy and Microanalysis, 2012, 18, 1054-1055.	0.2	14
66	Mineral Reference Standards and Quantitative Electron-Probe Microanalysis. Microscopy and Microanalysis, 2012, 18, 1734-1735.	0.2	5
67	A Combined EPMA and Cathodoluminescence Study of Minerals from Franklin NJ. Microscopy and Microanalysis, 2012, 18, 1746-1747.	0.2	1
68	Hyperspectral Cathodoluminescence Examination of Defects in a Carbonado Diamond. Microscopy and Microanalysis, 2012, 18, 1303-1312.	0.2	10
69	A Reduced Organic Carbon Component in Martian Basalts. Science, 2012, 337, 212-215.	6.0	182
70	The fate of subducted oceanic slabs in the shallow mantle: Insights from boron isotopes and light element composition of metasomatized blueschists from the Mariana forearc. Lithos, 2012, 132-133, 162-179.	0.6	76
71	Bridging the Micro-to-Macro Gap: A New Application for Micro X-Ray Fluorescence. Microscopy and Microanalysis, 2011, 17, 410-417.	0.2	16
72	An Examination of Kernite (Na2B4O6(OH)2·3H2O) Using X-Ray and Electron Spectroscopies: Quantitative Microanalysis of a Hydrated Low-Z Mineral. Microscopy and Microanalysis, 2011, 17, 718-727.	0.2	4

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73	Evidence for boron incorporation into the serpentine crystal structure. American Mineralogist, 2011, 96, 1112-1119.	0.9	42
74	Advances in Electron-Probe Microanalysis and Compositional Mapping: Applications to the Analysis of Meteorites. Microscopy and Microanalysis, 2009, 15, 534-535.	0.2	0
75	Three-dimensional Microanalysis Using FIB SEM: Variations in Technique. Microscopy and Microanalysis, 2009, 15, 476-477.	0.2	1
76	Solving the Micro to Macro Problem: A New Application for Milli X-ray Fluorescence X-ray Spectrum Imaging. Microscopy and Microanalysis, 2009, 15, 542-543.	0.2	0
77	Challenges Involved In X-Ray Microanalysis Of The Mineral Kernite [Na2B4O6(OH)2P3H2O]. Microscopy and Microanalysis, 2009, 15, 518-519.	0.2	0
78	Auger Electron Spectroscopy of Kernite: Coaxing Useful Information Out of a Recalcitrant Specimen. Microscopy and Microanalysis, 2009, 15, 1384-1385.	0.2	0
79	Sodic Pyroxene and Sodic Amphibole as Potential Reference Materials for <i>In Situ</i> Lithium Isotope Determinations by SIMS. Geostandards and Geoanalytical Research, 2008, 32, 295-310.	1.7	16
80	Hydrogen isotope evidence for loss of water from Mars through time. Geophysical Research Letters, 2008, 35, .	1.5	132
81	TOFâ€ 6 IMS analysis of cometary matter in Stardust aerogel tracks. Meteoritics and Planetary Science, 2008, 43, 233-246.	0.7	42
82	Short- and Long-Term Olivine Weathering in Svalbard: Implications for Mars. Astrobiology, 2008, 8, 1079-1092.	1.5	44
83	Water by EPMA- New Developments. Microscopy and Microanalysis, 2008, 14, 1274-1275.	0.2	6
84	X-ray Mapping Analyses of Lunar Meteorite Dhofar 961: Characterization and Origin of the Mafic Impact-Melt Component. Microscopy and Microanalysis, 2008, 14, 514-515.	0.2	1
85	Systematics of Cathodoluminescence and Trace Element Compositional Zoning in Natural Quartz from Volcanic Rocks: Ti mapping in Quartz. Microscopy and Microanalysis, 2008, 14, 38-39.	0.2	5
86	Hyperspectral X-ray Analysis of Submicrometer-scale Heterogeneities in a Venerable Compositional Standard Provided by Nature: Kakanui Hornblende. Microscopy and Microanalysis, 2008, 14, 522-523.	0.2	5
87	A cornucopia of presolar and early solar system materials at the micrometer size range in primitive chondrite matrix. Meteoritics and Planetary Science, 2007, 42, 1417-1427.	0.7	36
88	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	6.0	848
89	Elemental Compositions of Comet 81P/Wild 2 Samples Collected by Stardust. Science, 2006, 314, 1731-1735.	6.0	200
90	A Cathodoluminescene (and Raman) Imaging and Spectroscopic Study of Ancient Polycrystalline Diamond. Microscopy and Microanalysis, 2006, 12, 1518-1519.	0.2	3

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91	Aqueous Processes Recorded by Martian Meteorites: Analyzing Martian Water on Earth. Elements, 2006, 2, 157-162.	0.5	31
92	Iron-Magnesium Silicate Bioweathering on Earth (and Mars?). Astrobiology, 2006, 6, 48-68.	1.5	69
93	Microstructural study of synthetic sintered diamond and comparison with carbonado, a natural polycrystalline diamond. American Mineralogist, 2004, 89, 438-445.	0.9	13
94	Determining the Local Bulk Chemistry of Martian Aqueous Alteration via X-ray Spectrum Imaging: A Link to Global Dust on Mars?. Microscopy and Microanalysis, 2004, 10, 894-895.	0.2	0
95	Progress on yttria-stabilized zirconia sensors for hydrothermal pH measurements. Chemical Geology, 2003, 198, 141-162.	1.4	47
96	Microbeam characterization of corning archeological reference glasses: New additions to the Smithsonian Microbeam Standard collection. Journal of Research of the National Institute of Standards and Technology, 2002, 107, 719.	0.4	116
97	Chemical heterogeneity in carbonado, an enigmatic polycrystalline diamond. Earth and Planetary Science Letters, 2001, 185, 315-330.	1.8	29
98	MICRO-ANALYTICAL STUDY OF THE OPTICAL PROPERTIES OF RAINBOW AND SHEEN OBSIDIANS. Canadian Mineralogist, 2001, 39, 57-71.	0.3	12
99	Focused ion beam milling: A method of site-specific sample extraction for microanalysis of Earth and planetary materials. American Mineralogist, 2001, 86, 1094-1099.	0.9	176
100	Condensed-phase modifications in magnesium particle combustion in air. Combustion and Flame, 2000, 122, 30-42.	2.8	64
101	Semitransparent cathodes for organic light emitting devices. Journal of Applied Physics, 2000, 87, 3080-3085.	1.1	110
102	High-temperature phases in ternary Zr–O–N systems. Journal of Materials Research, 1999, 14, 3840-3842.	1.2	8
103	Focus on community: directions for nursing knowledge development. Journal of Advanced Nursing, 1999, 29, 1188-1196.	1.5	11
104	Condensed-phase species distributions about Al particles reacting in various oxidizers. Combustion and Flame, 1999, 117, 351-361.	2.8	90
105	Phase changes in boron ignition and combustion. Combustion and Flame, 1999, 119, 272-290.	2.8	67
106	Phases of Titanium Combustion in Air. Combustion and Flame, 1998, 112, 522-532.	2.8	80
107	Formation and Structure of a Tinâ~'Iron Oxide Solid-State System with Potential Applications in Carbon Monoxide Sensing through the Use of Cyanogel Chemistry. Chemistry of Materials, 1998, 10, 880-885.	3.2	23
108	Microstructural observations of polycrystalline diamond: a contribution to the carbonado conundrum. Earth and Planetary Science Letters, 1998, 164, 421-433.	1.8	49

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109	Inorganic Photolithography: Interfacial Multicomponent Pattern Generation. Journal of Chemical Education, 1997, 74, 663.	1.1	12
110	Light-induced multielectron charge transfer processes occurring in a series of Group-8-platinum cyanobridged complexes. Coordination Chemistry Reviews, 1997, 159, 245-255.	9.5	18
111	CHAOS IN NURSING. American Journal of Nursing, 1997, 97, 26-31.	0.2	74
112	Growth and Characterization of Photoactive and Electroactive Zirconium Bisphosphonate Multilayer Films. Chemistry of Materials, 1996, 8, 1490-1499.	3.2	68
113	REVIEW: USES OF THEORY IN COMMUNITY HEALTH NURSING. Public Health Nursing, 1995, 12, 140-140.	0.7	1
114	Immiscible silicate liquids at high pressure: The influence of melt structure on elemental partitioning. Nuclear Instruments & Methods in Physics Research B, 1995, 104, 470-475.	0.6	6
115	Development of Redox-Active Optical Mesostructures at Chemically Modified Electrode Interfaces. Inorganic Chemistry, 1995, 34, 4262-4267.	1.9	37
116	Chaos Theory and Some Nursing Considerations. Nursing Science Quarterly, 1994, 7, 36-42.	0.3	15
117	Chaos Theory and Nursing Revisited. Nursing Science Quarterly, 1994, 7, 150-152.	0.3	4
118	Structure of a Novel Layered Zirconium Diphosphonate Compound: Zr2(O3PCH2CH2-viologen-CH2CH2PO3)F6.cntdot.2H2O. Chemistry of Materials, 1994, 6, 1845-1849.	3.2	54
119	Effect of oxygen fugacity on trace-element partitioning between immiscible silicate melts at atmospheric pressure: A proton and electron microprobe study. Chemical Geology, 1994, 117, 355-360.	1.4	14
120	AIDS Education on the College Campus: Roy's Adaptation Model Directs Inquiry. Public Health Nursing, 1992, 9, 270-276.	0.7	16
121	Nurse Manners'* Guide to Politically Correct Behavior. Journal of Nursing Scholarship, 1991, 23, 193-194.	0.5	0
122	The geology and geochemistry of Isla Marchena, Galapagos Archipelago: An ocean island adjacent to a mid-ocean ridge. Journal of Volcanology and Geothermal Research, 1990, 40, 291-315.	0.8	33
123	Inclusion/host relations involving accessory minerals in high-grade metamorphic and anatectic rocks. Contributions To Mineralogy and Petrology, 1989, 101, 220-231.	1.2	87
124	Plagioclase-ultraphyric basalts of the galapagos archipelago. Journal of Volcanology and Geothermal Research, 1989, 37, 325-337.	0.8	41
125	The Galapagos volcano Alcedo: A unique ocean caldera. Journal of Volcanology and Geothermal Research, 1985, 26, 173-177.	0.8	13