

Kristin M Poduska

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,338
citations

361296

20
h-index

360920

35
g-index

60
all docs

60
docs citations

60
times ranked

1858
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinguishing between calcites formed by different mechanisms using infrared spectrometry: archaeological applications. <i>Journal of Archaeological Science</i> , 2010, 37, 3022-3029.	1.2	182
2	Roughness effects on contact angle measurements. <i>American Journal of Physics</i> , 2008, 76, 1074-1077.	0.3	112
3	Decoupling Local Disorder and Optical Effects in Infrared Spectra: Differentiating Between Calcites with Different Origins. <i>Advanced Materials</i> , 2011, 23, 550-554.	11.1	91
4	Linking crystal structure with temperature-sensitive vibrational modes in calcium carbonate minerals. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17634-17639.	1.3	81
5	Unveiling the thermolysis natures of ZIF-8 and ZIF-67 by employing <i>in situ</i> structural characterization studies. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17571-17577.	1.3	65
6	Dynamics, crystallization and structures in colloid spin coating. <i>Soft Matter</i> , 2013, 9, 3220.	1.2	60
7	Structure and Properties of the Stannides CeAuSn, Ce ₃ Rh ₄ Sn ₁₃ , and Ce ₃ Ir ₄ Sn ₁₃ . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2001, 56, 1-8.	0.3	49
8	Structure determination of La ₃ CuGe ₇ and La ₃ CuGeSe ₇ . <i>Journal of Alloys and Compounds</i> , 2002, 335, L5-L9.	2.8	43
9	Optical absorption edge shifts in electrodeposited ZnO thin films. <i>Thin Solid Films</i> , 2007, 515, 7976-7983.	0.8	39
10	Plaster Characterization at the PPNB Site of Yiftahel (Israel) Including the Use of ¹⁴ C: Implications for Plaster Production, Preservation, and Dating. <i>Radiocarbon</i> , 2012, 54, 887-896.	0.8	37
11	Magnetosome-containing bacteria living as symbionts of bivalves. <i>ISME Journal</i> , 2014, 8, 2453-2462.	4.4	32
12	Electrochemically Controlled Growth and Positioning of Suspended Collagen Membranes. <i>Langmuir</i> , 2008, 24, 2970-2972.	1.6	30
13	Dynamics of Crystal Structure Formation in Spin-Coated Colloidal Films. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1481-1486.	2.1	28
14	Structural differences in archaeologically relevant calcite. <i>Analytical Methods</i> , 2015, 7, 9304-9309.	1.3	27
15	Selective formation of Ohmic junctions and Schottky barriers with electrodeposited ZnO. <i>Applied Physics Letters</i> , 2008, 92, 012103.	1.5	26
16	Orientationally correlated colloidal polycrystals without long-range positional order. <i>Physical Review E</i> , 2008, 77, 050402.	0.8	26
17	Accurate Radiocarbon Dating of Archaeological Ash Using Pyrogenic Aragonite. <i>Radiocarbon</i> , 2017, 59, 231-249.	0.8	23
18	Structural studies of a cubic, high-temperature ($\bar{1}\pm$) polymorph of Pb ₂ GeS ₄ and the isostructural Pb ₂ \hat{x} S _n xGeS ₄ \hat{y} Se _y solid solution. <i>Journal of Alloys and Compounds</i> , 2002, 335, 105-110.	2.8	22

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19	Structure and physical properties of CeSbTe. <i>Journal of Alloys and Compounds</i> , 2001, 314, 132-139.	2.8	21
20	Correlating Mechanical Properties with Aggregation Processes in Electrochemically Fabricated Collagen Membranes. <i>Biomacromolecules</i> , 2009, 10, 1970-1975.	2.6	21
21	Structural and thermopower studies of CeNiAl ₄ - and CeNiIn ₄ -related compounds. <i>Journal of Alloys and Compounds</i> , 2000, 308, 64-70.	2.8	20
22	Tuning magnetic hysteresis of electrodeposited Fe ₃ O ₄ . <i>Journal of Applied Physics</i> , 2005, 98, 113902.	1.1	19
23	A Strategy for Hydroxide Exclusion in Nanocrystalline Solid-State Metathesis Products. <i>Nanomaterials</i> , 2013, 3, 317-324.	1.9	18
24	Materials Science Challenges in Radiocarbon Dating: The Case of Archaeological Plasters. <i>Jom</i> , 2013, 65, 481-488.	0.9	16
25	Structural Features That Stabilize ZnO Clusters: An Electronic Structure Approach. <i>Computation</i> , 2013, 1, 16-26.	1.0	15
26	Fabrication and Wettability Analysis of Hydrophobic Stainless Steel Surfaces With Microscale Structures From Nanosecond Laser Machining. <i>Journal of Micro and Nano-Manufacturing</i> , 2018, 6, .	0.8	15
27	Incorporating Far-Infrared Data into Carbonate Mineral Analyses. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 628.	0.8	15
28	Bioturbating animals control the mobility of redox-sensitive trace elements in organic-rich mudstone. <i>Geology</i> , 2015, 43, 1007-1010.	2.0	14
29	Assessing Local and Long-Range Structural Disorder in Aggregate-Free Lime Binders. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8334-8340.	1.8	14
30	Regenerative nanobots based on magnetic layered double hydroxide for azo dye removal and degradation. <i>Chemical Communications</i> , 2017, 53, 10456-10458.	2.2	14
31	Phase-Selective Electroprecipitation of Calcium Phosphate Thin Films at Physiological Temperatures. <i>Crystal Growth and Design</i> , 2006, 6, 2634-2636.	1.4	13
32	Aggregation and Adsorption of Type I Collagen near an Electrified Interface. <i>Macromolecules</i> , 2007, 40, 8440-8444.	2.2	13
33	Controlled Cell Proliferation on an Electrochemically Engineered Collagen Scaffold. <i>Macromolecular Bioscience</i> , 2012, 12, 360-366.	2.1	13
34	Scaffold Effects on Osteogenic Differentiation of Equine Mesenchymal Stem Cells: An In Vitro Comparative Study. <i>Macromolecular Bioscience</i> , 2013, 13, 348-355.	2.1	12
35	Quantitative Metrics for Assessing Positional and Orientational Order in Colloidal Crystals. <i>Langmuir</i> , 2015, 31, 8251-8259.	1.6	12
36	Significant Carrier Concentration Changes in Native Electrodeposited ZnO. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2348-2352.	4.0	11

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37	A bright future for color-controlled solid state lighting. Journal of Materials Science: Materials in Electronics, 2015, 26, 4565-4570.	1.1	10
38	A non-linear elastic approach to study the effect of ambient humidity on sandstone. Journal of Applied Physics, 2020, 128, .	1.1	10
39	Ambient Degradation of ZnO Powders: Does Surface Polarity Matter?. ECS Journal of Solid State Science and Technology, 2014, 3, P133-P137.	0.9	8
40	The Effect of Synthesis Conditions and Humidity on Currentâ€”Voltage Relations in Electrodeposited ZnO-Based Schottky Junctions. ACS Applied Materials & Interfaces, 2009, 1, 552-558.	4.0	7
41	Exploiting Water-Mediated Ethanol Sensing by Polycrystalline ZnO at Room Temperature. ECS Journal of Solid State Science and Technology, 2013, 2, Q23-Q26.	0.9	7
42	Quantifying disorder in colloidal films spin-coated onto patterned substrates. Physical Review E, 2017, 95, 032607.	0.8	7
43	Vibrational properties of isotopically enriched materials: the case of calcite. RSC Advances, 2018, 8, 33985-33992.	1.7	7
44	Electrochemical cell for in situ magneto-optic Kerr effect measurements. Review of Scientific Instruments, 2003, 74, 4723-4727.	0.6	6
45	Micromagnetic modeling of experimental hysteresis loops for heterogeneous electrodeposited cobalt films. Applied Physics Letters, 2013, 102, .	1.5	5
46	Electrodeposited Zn for Water-Repellent Coatings. Journal of the Electrochemical Society, 2018, 165, D472-D476.	1.3	5
47	Frequency-Dependent Impedance Responses of ZnO Using UV Light. ECS Journal of Solid State Science and Technology, 2019, 8, N1-N4.	0.9	5
48	Collagen-Membrane-Induced Calcium Phosphate Electrocrystallization. Crystal Growth and Design, 2011, 11, 26-28.	1.4	4
49	Assessing the feasibility of electrophoretic separation of CaCO ₃ polymorphs for archaeological applications. Analytical Methods, 2017, 9, 427-433.	1.3	2
50	Graphite oxidation chemistry is relevant for designing cleaning strategies for radiocarbon dating samples. Analytical Methods, 2019, 11, 2880-2887.	1.3	1
51	Droplet asymmetry and wetting dynamics on irregularly roughened surfaces. Journal of Coatings Technology Research, 2021, 18, 911-919.	1.2	1
52	Photoacoustic Detection of Weak Absorption Bands in Infrared Spectra of Calcite. Applied Spectroscopy, 2021, 75, 000370282110092.	1.2	1
53	HYDROPHOBIC STAINLESS STEEL SURFACES WITH MICRON-SCALE AND SUB-MICRON STRUCTURES FROM LASER FABRICATION. , 2017, , .		1
54	Vibrational signatures of chemical- and density-induced structural changes in simulated amorphous silica. Canadian Journal of Physics, 2014, 92, 615-618.	0.4	0

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55	Flipping Materials Analysis on Its Head: What Materials Science Can Learn from Archaeology. Matter, 2019, 1, 785-787.	5.0	0
56	Mid- and far-infrared spectral links for calcium carbonate polymorphs. , 2020, , .		0