

# Richard G Haverkamp

## List of Publications by Year in descending order

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100  
papers

3,861  
citations

136950

32  
h-index

128289

60  
g-index

101  
all docs

101  
docs citations

101  
times ranked

5074  
citing authors

#	ARTICLE	IF	CITATIONS
1	Collagen arrangement and strength in sausage casings produced from natural intestines. Food Hydrocolloids, 2022, 129, 107612.	10.7	9
2	Controlled Hydrolysis of TiO <sub>2</sub> from HCl Digestion Liquors of Ilmenite. Industrial & Engineering Chemistry Research, 2022, 61, 6333-6342.	3.7	3
3	Collagen Extraction from Animal Skin. Biology, 2022, 11, 905.	2.8	32
4	Collagen dehydration. International Journal of Biological Macromolecules, 2022, 216, 140-147.	7.5	4
5	Manganese accumulation in probiotic Lactobacillus paracasei ATCC 55544 analyzed by synchrotron X-ray fluorescence microscopy and impact of accumulation on the bacterial viability following encapsulation. Food Research International, 2021, 147, 110528.	6.2	2
6	&lt;p&gt;Bovine Meniscus Middle Zone Tissue: Measurement of Collagen Fibril Behavior During Compression&lt;/p&gt;. International Journal of Nanomedicine, 2020, Volume 15, 5289-5298.	6.7	6
7	Characterization of the Heavy Mineral Suite in a Holocene Beach Placer, Barrytown, New Zealand. Minerals (Basel, Switzerland), 2020, 10, 86.	2.0	3
8	An EXAFS and XANES Study of V, Ni, and Fe Speciation in Cokes for Anodes Used in Aluminum Production. Minerals, Metals and Materials Series, 2020, , 1327-1328.	0.4	0
9	Measured collagen fibril response to arterial inflation using SAXS. International Journal of Biological Macromolecules, 2019, 137, 1020-1029.	7.5	3
10	An EXAFS and XANES Study of V, Ni, and Fe Speciation in Cokes for Anodes Used in Aluminum Production. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2969-2981.	2.1	11
11	Reactivity of Coke in Relation to Sulfur Level and Microstructure. Minerals, Metals and Materials Series, 2019, , 1247-1253.	0.4	2
12	Effect of collagen packing and moisture content on leather stiffness. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 90, 1-10.	3.1	13
13	Acellular dermal matrix collagen responds to strain by intermolecular spacing contraction with fibril extension and rearrangement. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 1-8.	3.1	12
14	Artificially modified collagen fibril orientation affects leather tear strength. Journal of the Science of Food and Agriculture, 2018, 98, 3524-3531.	3.5	6
15	A XANES Study of Sulfur Speciation and Reactivity in Cokes for Anodes Used in Aluminum Production. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1434-1443.	2.1	9
16	Data on collagen structures in leather with varying moisture contents from small angle X-ray scattering and three point bend testing. Data in Brief, 2018, 21, 1220-1226.	1.0	2
17	Nanostructure of electrospun collagen: Do electrospun collagen fibers form native structures?. Materialia, 2018, 3, 90-96.	2.7	67
18	Tropical Keratopathy (Florida Spots) in Cats. Veterinary Pathology, 2018, 55, 861-870.	1.7	7

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19	Fibril orientation and strength in collagen materials and adaptation to strain. <i>Advanced Materials Letters</i> , 2018, 9, 411-418.	0.6	0
20	Deer leather: analysis of the microstructure affecting pebble. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 3509-3514.	3.5	2
21	Influence of Heat Transfer on Anode Reactions When Electrowinning Metal from Its Oxides Dissolved in Molten Fluorides. <i>Journal of the Electrochemical Society</i> , 2017, 164, H5108-H5118.	2.9	3
22	The influence of water, lanolin, urea, proline, paraffin and fatliquor on collagen D-spacing in leather. <i>RSC Advances</i> , 2017, 7, 40658-40663.	3.6	12
23	Collagen Fibril Intermolecular Spacing Changes with 2-Propanol: A Mechanism for Tissue Stiffness. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2524-2532.	5.2	12
24	Collagen Fibril Response to Strain in Scaffolds from Ovine Forestomach for Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2550-2558.	5.2	14
25	Cover Image, Volume 97, Issue 11. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, i-i.	3.5	0
26	Cover Image, Volume 97, Issue 5. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, i-i.	3.5	0
27	A small angle X-ray scattering study of the structure and development of looseness in bovine hides and leather. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 1543-1551.	3.5	6
28	Electronic Structure and Growth of Electrochemically Formed Iridium Oxide Films. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1662-F1670.	2.9	10
29	Co-evolution of Carbon Oxides and Fluorides During the Electrowinning of Aluminium with Molten NaF-AlF <sub>3</sub> -CaF <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Electrolytes. <i>Minerals, Metals and Materials Series</i> , 2017, , 533-539.	0.4	7
30	The digestion of New Zealand ilmenite by hydrochloric acid. <i>Hydrometallurgy</i> , 2016, 163, 198-203.	4.3	28
31	Revisiting the interpretation of casein micelle SAXS data. <i>Soft Matter</i> , 2016, 12, 6937-6953.	2.7	78
32	A new force-extension formula for stretched macromolecules and polymers based on the Ising model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 463, 467-474.	2.6	0
33	Looseness in bovine leather: microstructural characterization. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 2731-2736.	3.5	15
34	Age Differences with Glutaraldehyde Treatment in Collagen Fibril Orientation of Bovine Pericardium. <i>Journal of Biomaterials and Tissue Engineering</i> , 2016, 6, 992-997.	0.1	4
35	Collagen Fibril Structure and Strength in Acellular Dermal Matrix Materials of Bovine, Porcine, and Human Origin. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1026-1038.	5.2	38
36	Collagen fibril strain, recruitment and orientation for pericardium under tension and the effect of cross links. <i>RSC Advances</i> , 2015, 5, 103703-103712.	3.6	20

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37	Changes to Collagen Structure during Leather Processing. Journal of Agricultural and Food Chemistry, 2015, 63, 2499-2505.	5.2	41
38	Solving the mystery of the internal structure of casein micelles. Soft Matter, 2015, 11, 2723-2725.	2.7	68
39	Poisson's ratio of collagen fibrils measured by small angle X-ray scattering of strained bovine pericardium. Journal of Applied Physics, 2015, 117, .	2.5	30
40	Collagen cross linking and fibril alignment in pericardium. RSC Advances, 2015, 5, 3611-3618.	3.6	22
41	Age Dependent Differences in Collagen Alignment of Glutaraldehyde Fixed Bovine Pericardium. BioMed Research International, 2014, 2014, 1-10.	1.9	22
42	Stabilizing Chromium from Leather Waste in Biochar. ACS Sustainable Chemistry and Engineering, 2014, 2, 1864-1870.	6.7	27
43	Stability of probiotic Lactobacillus paracasei during storage as affected by the drying method. International Dairy Journal, 2014, 39, 1-7.	3.0	65
44	Collagen Orientation and Leather Strength for Selected Mammals. Journal of Agricultural and Food Chemistry, 2013, 61, 887-892.	5.2	45
45	Collagen Fibril Diameter and Leather Strength. Journal of Agricultural and Food Chemistry, 2013, 61, 11524-11531.	5.2	41
46	Silver Nanoparticles Disrupt Wheat ( <i>Triticum aestivum</i> L.) Growth in a Sand Matrix. Environmental Science & Technology, 2013, 47, 1082-1090.	10.0	299
47	Collagen Fibril Orientation and Tear Strength across Ovine Skins. Journal of Agricultural and Food Chemistry, 2013, 61, 12327-12332.	5.2	14
48	C K-edge NEXAFS study of fluorocarbon formation on carbon anodes in molten NaF-AlF <sub>3</sub> -CaF <sub>2</sub> . Surface and Interface Analysis, 2013, 45, 1854-1858.	1.8	5
49	Collagen Fibril Alignment and Deformation during Tensile Strain of Leather: A Small-Angle X-ray Scattering Study. Journal of Agricultural and Food Chemistry, 2012, 60, 1201-1208.	5.2	27
50	Facilitating high-force single-polysaccharide stretching using covalent attachment of one end of the chain. Carbohydrate Polymers, 2012, 87, 806-815.	10.2	4
51	Iridium-ruthenium single phase mixed oxides for oxygen evolution: Composition dependence of electrocatalytic activity. Electrochimica Acta, 2012, 70, 158-164.	5.2	88
52	An XPS study of the fluorination of carbon anodes in molten NaF-AlF <sub>3</sub> -CaF <sub>2</sub> . Journal of Materials Science, 2012, 47, 1262-1267.	3.7	21
53	Nanoparticles of IrO <sub>2</sub> or Sb-SnO <sub>2</sub> increase the performance of iridium oxide DSA electrodes. Journal of Materials Science, 2012, 47, 1135-1141.	3.7	33
54	Chemical techniques for pretreating and regenerating active slag filters for improved phosphorus removal. Environmental Technology (United Kingdom), 2011, 32, 1053-1062.	2.2	6

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55	Silver and gold nanoparticles in plants: sites for the reduction to metal. <i>Metallomics</i> , 2011, 3, 628.	2.4	117
56	Collagen Fibril Orientation in Ovine and Bovine Leather Affects Strength: A Small Angle X-ray Scattering (SAXS) Study. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 9972-9979.	5.2	31
57	Gold nanoparticles produced in a microalga. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6439-6445.	1.9	140
58	Energy resolved XPS depth profile of (IrO <sub>2</sub> , RuO <sub>2</sub> ), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (Sb<sub>2</sub>/nanoparticle structure. <i>Surface and Interface Analysis</i> , 2011, 43, 847-855.	1.8	54
59	Biophysical characterization of ovine forestomach extracellular matrix biomaterials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011, 96B, 67-75.	3.4	29
60	Facilitating Nanomechanical Measurements on Physisorbed Biopolymers with Automated On-the-Fly Monitoring of Single-Molecule Force Curves. <i>Advanced Science Letters</i> , 2011, 4, 3576-3579.	0.2	0
61	Force-extension formula for the worm-like chain model from a variational principle. <i>Journal of Theoretical Biology</i> , 2010, 262, 498-504.	1.7	12
62	Electrocatalytic activity of IrO <sub>2</sub> –RuO <sub>2</sub> supported on Sb-doped SnO <sub>2</sub> nanoparticles. <i>Electrochimica Acta</i> , 2010, 55, 1978-1984.	5.2	173
63	A Decade of Nanoparticle Research in Australia and New Zealand. <i>Particulate Science and Technology</i> , 2010, 28, 1-40.	2.1	20
64	Antimicrobial and immunomodulatory activities of an ovine proline/arginine-rich cathelicidin. <i>International Journal of Antimicrobial Agents</i> , 2010, 35, 288-291.	2.5	11
65	Leather Structure Determination by Small-Angle X-ray Scattering (SAXS): Cross Sections of Ovine and Bovine Leather. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5286-5291.	5.2	30
66	The mechanism of metal nanoparticle formation in plants: limits on accumulation. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1453-1463.	1.9	240
67	Mechanical model for a collagen fibril pair in extracellular matrix. <i>European Biophysics Journal</i> , 2009, 38, 487-493.	2.2	12
68	X-ray pair distribution function analysis of nanostructured materials using a Mythen detector. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 849-856.	2.4	27
69	Assessment of physical techniques to regenerate active slag filters removing phosphorus from wastewater. <i>Water Research</i> , 2009, 43, 277-282.	11.3	29
70	Nanotechnology Provides a New Perspective on Chemical Thermodynamics. <i>Journal of Chemical Education</i> , 2009, 86, 50.	2.3	2
71	Stretching single polysaccharide molecules using AFM: A potential method for the investigation of the intermolecular uronate distribution of alginate?. <i>Food Hydrocolloids</i> , 2008, 22, 18-23.	10.7	26
72	Production of hydrogen by the electrochemical reforming of glycerol–water solutions in a PEM electrolysis cell. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4649-4654.	7.1	125

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73	Heterogeneity of milk fat globule membrane structure and composition as observed using fluorescence microscopy techniques. <i>International Dairy Journal</i> , 2008, 18, 1081-1089.	3.0	96
74	Multifunctional Inorganic-Binding Beads Self-Assembled Inside Engineered Bacteria. <i>Bioconjugate Chemistry</i> , 2008, 19, 2072-2080.	3.6	52
75	Using Proteomics, Immunohistology, and Atomic Force Microscopy To Characterize Surface Damage to Lambskins Observed after Enzymatic Dewooling. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 7934-7941.	5.2	6
76	Age Hardening Potential of Tall Oil Pitch Modified Bitumen. <i>Road Materials and Pavement Design</i> , 2007, 8, 467-481.	4.0	17
77	Investigation of the effects of fine structure on the nanomechanical properties of pectin. <i>Physical Review E</i> , 2007, 76, 021927.	2.1	19
78	Model for stretching elastic biopolymers which exhibit conformational transformations. <i>Physical Review E</i> , 2007, 75, 021907.	2.1	28
79	Accumulation of Gold Nanoparticles in Brassica Juncea. <i>International Journal of Phytoremediation</i> , 2007, 9, 197-206.	3.1	108
80	Hydrophobin genes and their expression in conidial and aconidial <i>Neurospora</i> species. <i>Fungal Genetics and Biology</i> , 2007, 44, 250-257.	2.1	7
81	Entropic and Enthalpic Contributions to the Chair-Boat Conformational Transformation in Dextran under Single Molecule Stretching. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13653-13657.	2.6	10
82	Adhesive Properties of Tall Oil Pitch Modified Bitumen. <i>Road Materials and Pavement Design</i> , 2007, 8, 449-465.	4.0	11
83	Effect of Oxazolidinone E on Collagen Fibril Formation and Stabilization of the Collagen Matrix. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 6813-6822.	5.2	12
84	Effects of Redox Potential and pH Changes on Phosphorus Retention by Melter Slag Filters Treating Wastewater. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6585-6590.	10.0	29
85	Phosphorus Removal Mechanisms in Active Slag Filters Treating Waste Stabilization Pond Effluent. <i>Environmental Science &amp; Technology</i> , 2007, 41, 3296-3301.	10.0	73
86	Pick your carats: nanoparticles of gold-silver-copper alloy produced in vivo. <i>Journal of Nanoparticle Research</i> , 2007, 9, 697-700.	1.9	124
87	Adhesive Properties of Tall Oil Pitch Modified Bitumen. <i>Road Materials and Pavement Design</i> , 2007, 8, 449-465.	4.0	0
88	Age Hardening Potential of Tall Oil Pitch Modified Bitumen. <i>Road Materials and Pavement Design</i> , 2007, 8, 467-481.	4.0	0
89	Phosphorus removal by an "active" slag filter—a decade of full scale experience. <i>Water Research</i> , 2006, 40, 113-118.	11.3	152
90	Structural basis for rodlet assembly in fungal hydrophobins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3621-3626.	7.1	218

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91	Stretching Single Molecules of Connective Tissue Glycans to Characterize Their Shape-Maintaining Elasticity. <i>Biomacromolecules</i> , 2005, 6, 1816-1818.	5.4	50
92	Direct observation of the asphaltene structure in paving-grade bitumen using confocal laser-scanning microscopy. <i>Journal of Microscopy</i> , 2004, 215, 149-155.	1.8	67
93	Investigation of morphological changes to <i>Staphylococcus aureus</i> induced by ovine-derived antimicrobial peptides using TEM and AFM. <i>FEMS Microbiology Letters</i> , 2004, 240, 105-110.	1.8	39
94	Ozone Production in a High Frequency Dielectric Barrier Discharge Generator. <i>Ozone: Science and Engineering</i> , 2002, 24, 321-328.	2.5	16
95	XPS study of the changes during the service life of polyester powder coatings. <i>Surface and Interface Analysis</i> , 2002, 33, 330-334.	1.8	14
96	Studies of the microstructure of polymer-modified bitumen emulsions using confocal laser scanning microscopy. <i>Journal of Microscopy</i> , 2001, 204, 252-257.	1.8	57
97	The Hydrophobin EAS Is Largely Unstructured in Solution and Functions by Forming Amyloid-Like Structures. <i>Structure</i> , 2001, 9, 83-91.	3.3	139
98	Modelling the dissolution of alumina powder in cryolite. <i>Chemical Engineering and Processing: Process Intensification</i> , 1998, 37, 177-187.	3.6	64
99	Synthesis and Characterization of $\text{LaCr}_{1-x}\text{Ni}_x\text{O}_3$ Perovskite Oxide Catalysts. <i>Journal of Catalysis</i> , 1997, 166, 315-323.	6.2	43
100	Adsorption of hydrogen fluoride on alumina. <i>Surface and Interface Analysis</i> , 1992, 19, 139-144.	1.8	33