

# Kenan P Fears

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,354  
citations

331670

21  
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330143

37  
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42  
all docs

42  
docs citations

42  
times ranked

1863  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineered <i>Escherichia coli</i> Biofilms Produce Adhesive Nanomaterials Shaped by a Patterned 43 kDa Barnacle Cement Protein. <i>Biomacromolecules</i> , 2021, 22, 365-373.	5.4	12
2	Zirconia-Based Aerogels for Sorption and Degradation of Dimethyl Methylphosphonate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 19584-19592.	3.7	12
3	Pressure cycling technology for challenging proteomic sample processing: application to barnacle adhesive. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 235-247.	1.3	20
4	Adhesion of acorn barnacles on surface-active borate glasses. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190203.	4.0	11
5	Molecular Recognition of Structures Is Key in the Polymerization of Patterned Barnacle Adhesive Sequences. <i>ACS Nano</i> , 2019, 13, 5172-5183.	14.6	32
6	Extremely tough cyclic peptide nanopolymers. <i>MRS Advances</i> , 2019, 4, 2527-2532.	0.9	4
7	Adsorption and Destruction of the G-Series Nerve Agent Simulant Dimethyl Methylphosphonate on Zinc Oxide. <i>ACS Catalysis</i> , 2019, 9, 902-911.	11.2	54
8	Vibrational relaxation of small anions in a polymer film. <i>Chemical Physics</i> , 2018, 512, 75-81.	1.9	1
9	Acorn Barnacles Secrete Phase-Separating Fluid to Clear Surfaces Ahead of Cement Deposition. <i>Advanced Science</i> , 2018, 5, 1700762.	11.2	52
10	Marine Biofouling: Acorn Barnacles Secrete Phase-Separating Fluid to Clear Surfaces Ahead of Cement Deposition (Adv. Sci. 6/2018). <i>Advanced Science</i> , 2018, 5, 1870038.	11.2	0
11	High-performance nanomaterials formed by rigid yet extensible cyclic $\beta$ -peptide polymers. <i>Nature Communications</i> , 2018, 9, 4090.	12.8	15
12	Coupling Ambient Pressure X-ray Photoelectron Spectroscopy with Density Functional Theory to Study Complex Surface Chemistry and Catalysis. <i>Topics in Catalysis</i> , 2018, 61, 2175-2184.	2.8	8
13	Oxidase Activity of the Barnacle Adhesive Interface Involves Peroxide-Dependent Catechol Oxidase and Lysyl Oxidase Enzymes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 11493-11505.	8.0	61
14	Thermal desorption of dimethyl methylphosphonate from $\text{MoO}_3$ . <i>Journal of Lithic Studies</i> , 2017, 3, 112-118.	0.5	19
15	Albumin conformational change and aggregation induced by nanostructured apatites. <i>Biointerphases</i> , 2017, 12, 02D403.	1.6	3
16	Superconducting TaC nanoparticle-containing ceramic nanocomposites thermally transformed from mixed Ta and aromatic molecule precursors. <i>Journal of Materials Research</i> , 2017, 32, 3353-3361.	2.6	5
17	Spectroscopic and Computational Investigation of Room-Temperature Decomposition of a Chemical Warfare Agent Simulant on Polycrystalline Cupric Oxide. <i>Chemistry of Materials</i> , 2017, 29, 7483-7496.	6.7	48
18	Imaging Active Surface Processes in Barnacle Adhesive Interfaces. <i>Langmuir</i> , 2016, 32, 541-550.	3.5	31

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19	Sequence basis of Barnacle Cement Nanostructure is Defined by Proteins with Silk Homology. <i>Scientific Reports</i> , 2016, 6, 36219.	3.3	79
20	Surface-Active Borate Glasses as Antifouling Materials. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500370.	3.7	2
21	Molt-dependent transcriptomic analysis of cement proteins in the barnacle <i>Amphibalanus amphitrite</i> . <i>BMC Genomics</i> , 2015, 16, 859.	2.8	46
22	Shell Structure and Growth in the Base Plate of the Barnacle <i>Amphibalanus amphitrite</i> . <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1085-1095.	5.2	10
23	Self-Assembly of Protein Nanofibrils Orchestrates Calcite Step Movement through Selective Nonchiral Interactions. <i>ACS Nano</i> , 2015, 9, 5782-5791.	14.6	27
24	Formation and Stability of Metastable Tungsten Carbide Nanoparticles. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2060-2066.	2.5	9
25	Surface-Induced Changes in the Conformation and Glucan Production of Glucosyltransferase Adsorbed on Saliva-Coated Hydroxyapatite. <i>Langmuir</i> , 2015, 31, 4654-4662.	3.5	15
26	Spanning Strong to Weak Normal Mode Coupling between Vibrational and Fabry-Pérot Cavity Modes through Tuning of Vibrational Absorption Strength. <i>ACS Photonics</i> , 2015, 2, 1460-1467.	6.6	118
27	Substitution of silicon within the rhombohedral boron carbide (B <sub>4</sub> C) crystal lattice through high-energy ball-milling. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11705-11716.	5.5	40
28	Synthesis and characterization of cyclic peptides that are $\hat{\imath}^2$ -helical in trifluoroethanol. <i>Journal of Peptide Science</i> , 2014, 20, 366-374.	1.4	1
29	Growth and development of the barnacle <i>Amphibalanus amphitrite</i> : time and spatially resolved structure and chemistry of the base plate. <i>Biofouling</i> , 2014, 30, 799-812.	2.2	55
30	Measuring the pK <sub>a</sub> /pI of Biomolecules Using X-ray Photoelectron Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 8526-8529.	6.5	9
31	Evaluating protocols and analytical methods for peptide adsorption experiments. <i>Biointerphases</i> , 2013, 8, 20.	1.6	18
32	Residue-Dependent Adsorption of Model Oligopeptides on Gold. <i>Journal of the American Chemical Society</i> , 2013, 135, 15040-15052.	13.7	24
33	Circular Dichroism Analysis of Cyclic $\hat{\imath}^2$ -Helical Peptides Adsorbed on Planar Fused Quartz. <i>Langmuir</i> , 2013, 29, 10095-10101.	3.5	19
34	Hybrid inorganic-organic poly(carborane-siloxane-arylacetylene) structural isomers with in-chain aromatics: Synthesis and properties. <i>Journal of Polymer Science Part A</i> , 2013, 51, 2638-2650.	2.3	31
35	Layer-by-Layer Assembly of Heterogeneous Modular Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1694-1701.	3.1	22
36	Formation of a crosslinked POSS network by an unusual hydrosilylation: Thermo-oxidative stabilization of the $\hat{\imath}^2$ -cristobalite phase in its amorphous regions. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3158-3170.	2.3	12

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37	Vibrational circular-dichroism spectroscopy of homologous cyclic peptides designed to fold into $\hat{2}$ helices of opposite chirality. <i>Biointerphases</i> , 2011, 6, 1-7.	1.6	49
38	Investigation of the Effects of Surface Chemistry and Solution Concentration on the Conformation of Adsorbed Proteins Using an Improved Circular Dichroism Method. <i>Langmuir</i> , 2009, 25, 3050-3056.	3.5	124
39	Probing the Conformation and Orientation of Adsorbed Enzymes Using Side-Chain Modification. <i>Langmuir</i> , 2009, 25, 9319-9327.	3.5	62
40	Saccharide Polymer Brushes To Control Protein and Cell Adhesion to Titanium. <i>Biomacromolecules</i> , 2009, 10, 748-755.	5.4	48
41	Assessing the Influence of Adsorbed-State Conformation on the Bioactivity of Adsorbed Enzyme Layers. <i>Langmuir</i> , 2009, 25, 13926-13933.	3.5	48
42	Determination of the Surface $\rho$ of Carboxylic- and Amine-Terminated Alkanethiols Using Surface Plasmon Resonance Spectroscopy. <i>Langmuir</i> , 2008, 24, 837-843.	3.5	98