Kiyotaka Shiba

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

9,075 41 95 120 h-index g-index citations papers 128 11,304 7.9 5.37 L-index avg, IF ext. citations ext. papers

| # | Paper | IF | Citations |
|-----|---|-------------------|-----------|
| 120 | Bio-functionalized titanium surfaces with modified silk fibroin carrying titanium binding motif to enhance the ossific differentiation of MC3T3-E1. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 2585-259 | 9 ₫ .9 | O |
| 119 | Specimen-specific drift of densities defines distinct subclasses of extracellular vesicles from human whole saliva. <i>PLoS ONE</i> , 2021 , 16, e0249526 | 3.7 | 0 |
| 118 | Pentapartite fractionation of particles in oral fluids by differential centrifugation. <i>Scientific Reports</i> , 2021 , 11, 3326 | 4.9 | 3 |
| 117 | New Role for Growth/Differentiation Factor 15 in the Survival of Transplanted Brown Adipose Tissues in Cooperation with Interleukin-6. <i>Cells</i> , 2020 , 9, | 7.9 | 3 |
| 116 | Raman image-activated cell sorting. <i>Nature Communications</i> , 2020 , 11, 3452 | 17.4 | 55 |
| 115 | A Novel System to Detect Circulating Tumor Cells Using Two Different Size-selective Microfilters. <i>Anticancer Research</i> , 2020 , 40, 5577-5582 | 2.3 | 1 |
| 114 | Subtypes of tumour cell-derived small extracellular vesicles having differently externalized phosphatidylserine. <i>Journal of Extracellular Vesicles</i> , 2019 , 8, 1579541 | 16.4 | 44 |
| 113 | Label-free chemical imaging flow cytometry by high-speed multicolor stimulated Raman scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15842-15848 | 8 ^{11.5} | 78 |
| 112 | Intelligent Image-Activated Cell Sorting. <i>Cell</i> , 2018 , 175, 266-276.e13 | 56.2 | 241 |
| 111 | Immobilization of a carbon nanomaterial-based localized drug-release system using a bispecific material-binding peptide. <i>International Journal of Nanomedicine</i> , 2018 , 13, 1643-1652 | 7.3 | 7 |
| 110 | Preferential capture of EpCAM-expressing extracellular vesicles on solid surfaces coated with an aptamer-conjugated zwitterionic polymer. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 536-544 | 4.9 | 13 |
| 109 | Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. Journal of Extracellular Vesicles, 2018, 7, 1535750 | 16.4 | 3642 |
| 108 | Host Cell Prediction of Exosomes Using Morphological Features on Solid Surfaces Analyzed by Machine Learning. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6224-6235 | 3.4 | 9 |
| 107 | Wash-free and selective imaging of epithelial cell adhesion molecule (EpCAM) expressing cells with fluorogenic peptide ligands. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 500, 283-287 | 3.4 | 4 |
| 106 | Programmable Bio-surfaces for Biomedical Applications. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 1030, 1-20 | 3.6 | O |
| 105 | Encryption of agonistic motifs for TLR4 into artificial antigens augmented the maturation of antigen-presenting cells. <i>PLoS ONE</i> , 2017 , 12, e0188934 | 3.7 | 6 |
| 104 | Isolation of Extracellular Vesicles in Saliva Using Density Gradient Ultracentrifugation. <i>Methods in Molecular Biology</i> , 2017 , 1660, 343-350 | 1.4 | 11 |

(2011-2016)

| 103 | Isolation of human salivary extracellular vesicles by iodixanol density gradient ultracentrifugation and their characterizations. <i>Journal of Extracellular Vesicles</i> , 2016 , 5, 30829 | 16.4 | 94 |
|-----|---|---------------|----|
| 102 | Bridging Adhesion of a Protein onto an Inorganic Surface Using Self-Assembled Dual-Functionalized Spheres. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12890-6 | 16.4 | 17 |
| 101 | Not nanocarbon but dispersant induced abnormality in lysosome in macrophages in vivo. <i>Nanotechnology</i> , 2015 , 26, 195102 | 3.4 | 5 |
| 100 | Isolation and Quantification of Exosomes. <i>Membrane</i> , 2015 , 40, 242-247 | О | |
| 99 | Suppression of Aggrus/podoplanin-induced platelet aggregation and pulmonary metastasis by a single-chain antibody variable region fragment. <i>Cancer Medicine</i> , 2014 , 3, 1595-604 | 4.8 | 11 |
| 98 | Ultrastructural localization of intravenously injected carbon nanohorns in tumor. <i>International Journal of Nanomedicine</i> , 2014 , 9, 3499-508 | 7.3 | 4 |
| 97 | Combinatorial contextualization of peptidic epitopes for enhanced cellular immunity. <i>PLoS ONE</i> , 2014 , 9, e110425 | 3.7 | 5 |
| 96 | Adhesion of pancreatic cancer cells in a liver-microvasculature mimicking coculture correlates with their propensity to form liver-specific metastasis in vivo. <i>BioMed Research International</i> , 2014 , 2014, 24 | 1 <i>3</i> 71 | 1 |
| 95 | An artificial fusion protein between bone morphogenetic protein 2 and titanium-binding peptide is functional in vivo. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1180-6 | 5.4 | 12 |
| 94 | Nonvolatile flash memory based on biologically integrated hierarchical nanostructures. <i>Langmuir</i> , 2013 , 29, 12483-9 | 4 | 9 |
| 93 | Chiral meta-molecules consisting of gold nanoparticles and genetically engineered tobacco mosaic virus. <i>Optics Express</i> , 2012 , 20, 24856-63 | 3.3 | 53 |
| 92 | Carbon nanohorns accelerate bone regeneration in rat calvarial bone defect. <i>Nanotechnology</i> , 2011 , 22, 065102 | 3.4 | 22 |
| 91 | A tumor-environment-responsive nanocarrier that evolves its surface properties upon sensing matrix metalloproteinase-2 and initiates agglomeration to enhance TIPelaxivity for magnetic resonance imaging. <i>Molecular Pharmaceutics</i> , 2011 , 8, 1970-4 | 5.6 | 31 |
| 90 | A novel bifunctional protein supramolecule for construction of carbon nanotube-titanium hybrid material. <i>Chemical Communications</i> , 2011 , 47, 12649-51 | 5.8 | 18 |
| 89 | Identification of peptide motif that binds to the surface of zirconia. <i>Dental Materials Journal</i> , 2011 , 30, 935-40 | 2.5 | 15 |
| 88 | Three-Dimensional Nanodot-Type Floating Gate Memory Fabricated by Bio-Layer-by-Layer Method. <i>Applied Physics Express</i> , 2011 , 4, 085004 | 2.4 | 8 |
| 87 | Physicochemical properties of artificial proteins that accelerate nucleation of crystalline calcium phosphate. <i>Journal of Crystal Growth</i> , 2011 , 314, 190-195 | 1.6 | 6 |
| 86 | Creation of novel signalling modulators from existing cytokine using scanning motif-programming. <i>Chemical Communications</i> , 2011 , 47, 9357-9 | 5.8 | |

| 85 | Natural and artificial peptide motifs: their origins and the application of motif-programming. <i>Chemical Society Reviews</i> , 2010 , 39, 117-26 | 58.5 | 37 |
|----|---|------|-----|
| 84 | Autonomous silica encapsulation and sustained release of anticancer protein. <i>Langmuir</i> , 2010 , 26, 2231 | -44 | 24 |
| 83 | Prevention of biofilm formation on titanium surfaces modified with conjugated molecules comprised of antimicrobial and titanium-binding peptides. <i>Biofouling</i> , 2010 , 26, 103-10 | 3.3 | 88 |
| 82 | Peptide-coated, self-assembled M12L24 coordination spheres and their immobilization onto an inorganic surface. <i>Chemical Science</i> , 2010 , 1, 68 | 9.4 | 55 |
| 81 | Motif-programmed artificial proteins mediated nucleation of octacalcium phosphate on titanium substrates. <i>Chemical Communications</i> , 2010 , 46, 6675-7 | 5.8 | 10 |
| 80 | Exploitation of peptide motif sequences and their use in nanobiotechnology. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 412-25 | 11.4 | 68 |
| 79 | Morphological Evolution of Calcium Phosphate Crystals with the Assistance of Motif-Programmed Artificial Proteins. <i>Transactions of the Materials Research Society of Japan</i> , 2010 , 35, 825-827 | 0.2 | |
| 78 | Effect of motif-programmed artificial proteins on the calcium uptake in a synthetic hydrogel. <i>Macromolecular Bioscience</i> , 2009 , 9, 959-67 | 5.5 | 8 |
| 77 | Directional BMP-2 for functionalization of titanium surfaces. <i>Biomaterials</i> , 2009 , 30, 1166-75 | 15.6 | 108 |
| 76 | Prevention of carbon nanohorn agglomeration using a conjugate composed of comb-shaped polyethylene glycol and a peptide aptamer. <i>Molecular Pharmaceutics</i> , 2009 , 6, 441-7 | 5.6 | 36 |
| 75 | Synthesis of functional signaling domains by combinatorial polymerization of phosphorylation motifs. <i>ACS Chemical Biology</i> , 2009 , 4, 751-8 | 4.9 | 3 |
| 74 | Biodistribution and ultrastructural localization of single-walled carbon nanohorns determined in vivo with embedded Gd2O3 labels. <i>ACS Nano</i> , 2009 , 3, 1399-406 | 16.7 | 74 |
| 73 | Critical amino acid residues for the specific binding of the Ti-recognizing recombinant ferritin with oxide surfaces of titanium and silicon. <i>Langmuir</i> , 2009 , 25, 10901-6 | 4 | 42 |
| 72 | 3TA1-02 Direct transformation from amorphous to crystalline calcium phosphate facilitated by motif-programmed artificial proteins(The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S51 | Ο | |
| 71 | Motif-programmed artificial protein induces apoptosis in several cancer cells by disrupting mitochondria. <i>Cancer Science</i> , 2008 , 99, 398-406 | 6.9 | 8 |
| 70 | Motif-programmed artificial extracellular matrix. <i>Biomacromolecules</i> , 2008 , 9, 3098-105 | 6.9 | 29 |
| 69 | Growth of giant two-dimensional crystal of protein molecules from a three-phase contact line. <i>Langmuir</i> , 2008 , 24, 12836-41 | 4 | 23 |
| 68 | Direct transformation from amorphous to crystalline calcium phosphate facilitated by motif-programmed artificial proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 16866-70 | 11.5 | 128 |

(2006-2008)

| 67 | Stepwise accumulation of layers of aptamer-ornamented ferritins using biomimetic layer-by-layer. Journal of Materials Research, 2008 , 23, 3236-3240 | 2.5 | 5 |
|----|--|------------------|----|
| 66 | In Aqua Manufacturing of a Three-Dimensional Nanostructure Using a Peptide Aptamer. <i>MRS Bulletin</i> , 2008 , 33, 524-529 | 3.2 | 12 |
| 65 | Filamentous Phage-Based Extra Cellular Matrix 2008 , | | 1 |
| 64 | Adsorption Properties of a Gold-Binding Peptide Assessed by its Attachment to a Recombinant Apoferritin Molecule. <i>Applied Physics Express</i> , 2008 , 1, 034006 | 2.4 | 11 |
| 63 | In aqua structuralization of a three-dimensional configuration using biomolecules. <i>Nano Letters</i> , 2007 , 7, 3200-2 | 11.5 | 55 |
| 62 | Structural properties of an artificial protein that regulates the nucleation of inorganic and organic crystals. <i>Langmuir</i> , 2007 , 23, 3857-63 | 4 | 9 |
| 61 | Motif programming: a microgene-based method for creating synthetic proteins containing multiple functional motifs. <i>Nucleic Acids Research</i> , 2007 , 35, e38 | 20.1 | 20 |
| 60 | Realizing a two-dimensional ordered array of ferritin molecules directly on a solid surface utilizing carbonaceous material affinity peptides. <i>Langmuir</i> , 2007 , 23, 1615-8 | 4 | 71 |
| 59 | A synthesis approach to understanding repeated peptides conserved in mineralization proteins. <i>Biomacromolecules</i> , 2007 , 8, 2659-64 | 6.9 | 27 |
| 58 | The Interaction of ToiliconTwith Proteins: Part 2. The Rold of Bioinspired Peptide and Recombinant Proteins in Silica Polymerization. <i>ACS Symposium Series</i> , 2007 , 328-347 | 0.4 | 6 |
| 57 | Conversion of a monodispersed globular protein into an amyloid-like filament by appending an artificial peptide at the N-terminal. <i>Protein Engineering, Design and Selection</i> , 2007 , 20, 109-16 | 1.9 | 4 |
| 56 | Direct Production of a Two-Dimensional Ordered Array of Ferritin-Nanoparticles on a Silicon Substrate. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L713-L715 | 1.4 | 24 |
| 55 | The role of peptide motifs in the evolution of a protein network. <i>Nucleic Acids Research</i> , 2007 , 35, 6357 | - 66 60.1 | 18 |
| 54 | Dispersion of cisplatin-loaded carbon nanohorns with a conjugate comprised of an artificial peptide aptamer and polyethylene glycol. <i>Molecular Pharmaceutics</i> , 2007 , 4, 723-9 | 5.6 | 58 |
| 53 | Exploitation of Interface between Peptides and Inorganic Materials in Nano-Biotechnology. <i>Seibutsu Butsuri</i> , 2007 , 47, 139-144 | О | |
| 52 | Frame shuffling: a novel method for in vitro protein evolution. <i>Protein Engineering, Design and Selection</i> , 2006 , 19, 135-40 | 1.9 | 13 |
| 51 | Functionalization of carbon nanomaterials by evolutionary molecular engineering: potential application in drug delivery systems. <i>Journal of Drug Targeting</i> , 2006 , 14, 512-8 | 5.4 | 17 |
| 50 | Utilization of the pleiotropy of a peptidic aptamer to fabricate heterogeneous nanodot-containing multilayer nanostructures. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1717-22 | 16.4 | 88 |

| 49 | Solubilization of single-wall carbon nanohorns using a PEG-doxorubicin conjugate. <i>Molecular Pharmaceutics</i> , 2006 , 3, 407-14 | 5.6 | 95 |
|----|---|------|-----|
| 48 | Mechanism underlying specificity of proteins targeting inorganic materials. <i>Nano Letters</i> , 2006 , 6, 515-9 | 11.5 | 110 |
| 47 | Selective nanoscale positioning of ferritin and nanoparticles by means of target-specific peptides. <i>Small</i> , 2006 , 2, 1148-52 | 11 | 70 |
| 46 | Liaison between Biology and Material Science. <i>Hyomen Kagaku</i> , 2006 , 27, 164-169 | | |
| 45 | Specificity and biomineralization activities of Ti-binding peptide-1 (TBP-1). <i>Langmuir</i> , 2005 , 21, 3090-5 | 4 | 194 |
| 44 | Probing the conformational features of a phage display polypeptide sequence directed against single-walled carbon nanohorn surfaces. <i>Langmuir</i> , 2005 , 21, 11907-14 | 4 | 22 |
| 43 | Carbon nanohorns as anticancer drug carriers. <i>Molecular Pharmaceutics</i> , 2005 , 2, 475-80 | 5.6 | 326 |
| 42 | Protein-Mediated Bioinspired Mineralization. ACS Symposium Series, 2005, 150-163 | 0.4 | 3 |
| 41 | ?????????????TBP-1???????. Materia Japan, 2005 , 44, 799-803 | 0.1 | 1 |
| 40 | Endowing a ferritin-like cage protein with high affinity and selectivity for certain inorganic materials. <i>Small</i> , 2005 , 1, 826-32 | 11 | 111 |
| 39 | AFM and QCM-D Observations of the Binding of TBP-1 on Ti Surfaces. <i>Hyomen Kagaku</i> , 2005 , 26, 428-43 | 31 | 1 |
| 38 | Cellular distribution of Lysyl-tRNA synthetase and its interaction with Gag during human immunodeficiency virus type 1 assembly. <i>Journal of Virology</i> , 2004 , 78, 7553-64 | 6.6 | 67 |
| 37 | Combinatorics of peptide sextets encoded by a single microgene. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004 , 28, 215-221 | | 2 |
| 36 | MolCraft: a hierarchical approach to the synthesis of artificial proteins. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004 , 28, 145-153 | | 23 |
| 35 | Synthesis of functional proteins by mixing peptide motifs. <i>Chemistry and Biology</i> , 2004 , 11, 765-73 | | 31 |
| 34 | Affinity selection of peptide phage libraries against single-wall carbon nanohorns identifies a peptide aptamer with conformational variability. <i>Langmuir</i> , 2004 , 20, 8939-41 | 4 | 110 |
| 33 | Designer ribozymes: programming the tRNA specificity into flexizyme. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11454-5 | 16.4 | 26 |
| 32 | Construction and characterization of chimeric proteins composed of type-1 and type-2 periplasmic binding proteins MglB and ArgT. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004 , 68, 808-13 | 2.1 | 1 |

(1998-2004)

| 31 | Drug-loaded carbon nanohorns: adsorption and release of dexamethasone in vitro. <i>Molecular Pharmaceutics</i> , 2004 , 1, 399-405 | 5.6 | 303 |
|----|---|------|-----|
| 30 | Artificial Proteins that Interface between Biological and Inorganic Materials. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2004 , 17, 409-410 | 0.7 | |
| 29 | Distinct macroscopic structures developed from solutions of chemical compounds and periodic proteins. <i>EMBO Reports</i> , 2003 , 4, 148-53 | 6.5 | 30 |
| 28 | Binary Nanomaterials Based on Nanocarbons: A Case for Probing Carbon NanohornsT Biorecognition Properties. <i>Nano Letters</i> , 2003 , 3, 1033-1036 | 11.5 | 45 |
| 27 | A hexapeptide motif that electrostatically binds to the surface of titanium. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14234-5 | 16.4 | 300 |
| 26 | Translated products of tandem microgene repeats exhibit diverse properties also seen in natural proteins. <i>Protein Engineering, Design and Selection</i> , 2003 , 16, 57-63 | 1.9 | 14 |
| 25 | Characterization of folding pathways of the type-1 and type-2 periplasmic binding proteins MglB and ArgT. <i>Journal of Biochemistry</i> , 2003 , 133, 371-6 | 3.1 | 2 |
| 24 | Intron positions delineate the evolutionary path of a pervasively appended peptide in five human aminoacyl-tRNA synthetases. <i>Journal of Molecular Evolution</i> , 2002 , 55, 727-33 | 3.1 | 20 |
| 23 | Retrovirus-specific packaging of aminoacyl-tRNA synthetases with cognate primer tRNAs. <i>Journal of Virology</i> , 2002 , 76, 13111-5 | 6.6 | 67 |
| 22 | Guide oligonucleotide-dependent DNA linkage that facilitates controllable polymerization of microgene blocks. <i>Journal of Biochemistry</i> , 2002 , 132, 689-96 | 3.1 | 6 |
| 21 | Functional role of the prokaryotic proline-tRNA synthetase insertion domain in amino acid editing. <i>Biochemistry</i> , 2002 , 41, 7108-15 | 3.2 | 68 |
| 20 | On the role of periodism in the origin of proteins. <i>Journal of Molecular Biology</i> , 2002 , 320, 833-40 | 6.5 | 29 |
| 19 | Divergent adaptation of tRNA recognition by Methanococcus jannaschii prolyl-tRNA synthetase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 20286-91 | 5.4 | 22 |
| 18 | Incorporation of lysyl-tRNA synthetase into human immunodeficiency virus type 1. <i>Journal of Virology</i> , 2001 , 75, 5043-8 | 6.6 | 115 |
| 17 | Conservation of a tRNA core for aminoacylation. <i>Nucleic Acids Research</i> , 1999 , 27, 4743-50 | 20.1 | 19 |
| 16 | Precursor of pro-apoptotic cytokine modulates aminoacylation activity of tRNA synthetase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 16673-6 | 5.4 | 74 |
| 15 | Autonomous folding of a C-terminal inhibitory fragment of Escherichia coli isoleucine-tRNA synthetase. <i>BBA - Proteins and Proteomics</i> , 1999 , 1433, 103-9 | | 1 |
| 14 | Species-specific differences in the operational RNA code for aminoacylation of tRNAPro. <i>Biochemistry</i> , 1998 , 37, 8605-13 | 3.2 | 56 |

| 13 | Biochemical and phylogenetic analyses of methionyl-tRNA synthetase isolated from a pathogenic microorganism, Mycobacterium tuberculosis. <i>FEBS Letters</i> , 1998 , 427, 259-62 | 3.8 | 8 |
|----|--|------|-----|
| 12 | Strong selective pressure to use G:U to mark an RNA acceptor stem for alanine. <i>Biochemistry</i> , 1998 , 37, 9193-202 | 3.2 | 24 |
| 11 | Human asparaginyl-tRNA synthetase: molecular cloning and the inference of the evolutionary history of Asx-tRNA synthetase family. <i>Nucleic Acids Research</i> , 1998 , 26, 5045-51 | 20.1 | 17 |
| 10 | Human lysyl-tRNA synthetase accepts nucleotide 73 variants and rescues Escherichia coli double-defective mutant. <i>Journal of Biological Chemistry</i> , 1997 , 272, 22809-16 | 5.4 | 65 |
| 9 | Rapid colorectal adenoma formation initiated by conditional targeting of the Apc gene. <i>Science</i> , 1997 , 278, 120-3 | 33.3 | 490 |
| 8 | Maintaining genetic code through adaptations of tRNA synthetases to taxonomic domains. <i>Trends in Biochemical Sciences</i> , 1997 , 22, 453-7 | 10.3 | 48 |
| 7 | A eubacterial Mycobacterium tuberculosis tRNA synthetase is eukaryote-like and resistant to a eubacterial-specific antisynthetase drug. <i>Biochemistry</i> , 1996 , 35, 9995-10003 | 3.2 | 44 |
| 6 | Synthesis and Aminoacyl-tRNA Synthetase Inhibitory Activity of Prolyl Adenylate Analogs. <i>Bioorganic Chemistry</i> , 1996 , 24, 273-289 | 5.1 | 97 |
| 5 | Human alanyl-tRNA synthetase: conservation in evolution of catalytic core and microhelix recognition. <i>Biochemistry</i> , 1995 , 34, 10340-9 | 3.2 | 33 |
| 4 | Insertional disruption of the nusB (ssyB) gene leads to cold-sensitive growth of Escherichia coli and suppression of the secY24 mutation. <i>Molecular Genetics and Genomics</i> , 1992 , 234, 429-32 | | 44 |
| 3 | A temperature-sensitive mutant of E. coli exhibiting slow processing of exported proteins. <i>Cell</i> , 1983 , 32, 789-97 | 56.2 | 231 |
| 2 | Toward development of nano-materials composed of artificial proteins and nano-carbons | | 1 |
| 1 | Intelligent Cell Search Engine. SSRN Electronic Journal, | 1 | 1 |