

Tae-il Kim

List of Publications by Citations

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287
papers

15,725
citations

53
h-index

122
g-index

323
ext. papers

17,864
ext. citations

7.7
avg, IF

6.44
L-index

#	Paper	IF	Citations
287	Epidermal electronics. <i>Science</i> , 2011 , 333, 838-43	33.3	3216
286	A flexible and highly sensitive strain-gauge sensor using reversible interlocking of nanofibres. <i>Nature Materials</i> , 2012 , 11, 795-801	27	1227
285	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. <i>Nature Communications</i> , 2013 , 4, 1543	17.4	978
284	Ultrasensitive mechanical crack-based sensor inspired by the spider sensory system. <i>Nature</i> , 2014 , 516, 222-6	50.4	868
283	Injectable, cellular-scale optoelectronics with applications for wireless optogenetics. <i>Science</i> , 2013 , 340, 211-6	33.3	832
282	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , 2015 , 33, 1280-1286	44.5	510
281	Photothermally triggered cytosolic drug delivery via endosome disruption using a functionalized reduced graphene oxide. <i>ACS Nano</i> , 2013 , 7, 6735-46	16.7	343
280	Biological efficacy of silk fibroin nanofiber membranes for guided bone regeneration. <i>Journal of Biotechnology</i> , 2005 , 120, 327-39	3.7	278
279	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017 , 93, 509-521.e3	13.9	225
278	Dramatically Enhanced Mechanosensitivity and Signal-to-Noise Ratio of Nanoscale Crack-Based Sensors: Effect of Crack Depth. <i>Advanced Materials</i> , 2016 , 28, 8130-8137	24	200
277	Materials and Fabrication Processes for Transient and Bioresorbable High-Performance Electronics. <i>Advanced Functional Materials</i> , 2013 , 23, 4087-4093	15.6	191
276	PAMAM-PEG-PAMAM: novel triblock copolymer as a biocompatible and efficient gene delivery carrier. <i>Biomacromolecules</i> , 2004 , 5, 2487-92	6.9	187
275	Arginine-grafted bioreducible poly(disulfide amine) for gene delivery systems. <i>Biomaterials</i> , 2009 , 30, 658-64	15.6	159
274	High-efficiency, microscale GaN light-emitting diodes and their thermal properties on unusual substrates. <i>Small</i> , 2012 , 8, 1643-9	11	156
273	MXene/Polymer Hybrid Materials for Flexible AC-Filtering Electrochemical Capacitors. <i>Joule</i> , 2019 , 3, 164-176	27.8	153
272	Stooped Nanohairs: Geometry-Controllable, Unidirectional, Reversible, and Robust Gecko-like Dry Adhesive. <i>Advanced Materials</i> , 2009 , 21, 2276-2281	24	144
271	Alveolar bone regeneration by transplantation of periodontal ligament stem cells and bone marrow stem cells in a canine peri-implant defect model: a pilot study. <i>Journal of Periodontology</i> , 2009 , 80, 1815-23	4.6	144

270	Fabrication and application of flexible, multimodal light-emitting devices for wireless optogenetics. <i>Nature Protocols</i> , 2013 , 8, 2413-2428	18.8	142
269	Arginine-conjugated polypropylenimine dendrimer as a non-toxic and efficient gene delivery carrier. <i>Biomaterials</i> , 2007 , 28, 2061-7	15.6	141
268	A fluorescent turn-on probe for the detection of alkaline phosphatase activity in living cells. <i>Chemical Communications</i> , 2011 , 47, 9825-7	5.8	138
267	A highly selective fluorescent ES IPT probe for the dual specificity phosphatase MKP-6. <i>Chemical Communications</i> , 2009 , 5895-7	5.8	135
266	Low-Pressure Nanoimprint Lithography. <i>Nano Letters</i> , 2004 , 4, 633-637	11.5	104
265	Bioinspired Electronics for Artificial Sensory Systems. <i>Advanced Materials</i> , 2019 , 31, e1803637	24	104
264	Bioreducible polymers for gene delivery. <i>Reactive and Functional Polymers</i> , 2011 , 71, 344-349	4.6	102
263	Water-soluble thin film transistors and circuits based on amorphous indium-gallium-zinc oxide. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8268-74	9.5	98
262	A BODIPY-based probe for the selective detection of hypochlorous acid in living cells. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1358-61	4.5	98
261	Bio-inspired slanted polymer nanohairs for anisotropic wetting and directional dry adhesion. <i>Soft Matter</i> , 2010 , 6, 1849	3.6	95
260	Sources of Hysteresis in Carbon Nanotube Field-Effect Transistors and Their Elimination Via Methylsiloxane Encapsulants and Optimized Growth Procedures. <i>Advanced Functional Materials</i> , 2012 , 22, 2276-2284	15.6	93
259	Bioreducible polymers with cell penetrating and endosome buffering functionality for gene delivery systems. <i>Journal of Controlled Release</i> , 2011 , 152, 110-9	11.7	93
258	Unidirectional wetting and spreading on stooped polymer nanohairs. <i>Soft Matter</i> , 2009 , 5, 4131	3.6	93
257	A guanidinylated bioreducible polymer with high nuclear localization ability for gene delivery systems. <i>Biomaterials</i> , 2010 , 31, 1798-804	15.6	92
256	Materials and designs for wirelessly powered implantable light-emitting systems. <i>Small</i> , 2012 , 8, 2812-811		88
255	Multilayer Transfer Printing for Pixelated, Multicolor Quantum Dot Light-Emitting Diodes. <i>ACS Nano</i> , 2016 , 10, 4920-5	16.7	85
254	Anisotropic Thermal Conductive Composite by the Guided Assembly of Boron Nitride Nanosheets for Flexible and Stretchable Electronics. <i>Advanced Functional Materials</i> , 2019 , 29, 1902575	15.6	83
253	VEGF siRNA delivery system using arginine-grafted bioreducible poly(disulfide amine). <i>Molecular Pharmaceutics</i> , 2009 , 6, 718-26	5.6	83

252	Apatite-mineralized polycaprolactone nanofibrous web as a bone tissue regeneration substrate. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 88, 747-54	5.4	81
251	Immunologic and tissue biocompatibility of flexible/stretchable electronics and optoelectronics. <i>Advanced Healthcare Materials</i> , 2014 , 3, 515-25	10.1	80
250	Bioinspired reversible interlocker using regularly arrayed high aspect-ratio polymer fibers. <i>Advanced Materials</i> , 2012 , 24, 475-9	24	78
249	In remembrance of a valued member of our editorial board, Dr. Yoonkyung Do. <i>Journal of Periodontal and Implant Science</i> , 2015 , 45, 127	2	78
248	Visualization of tyrosinase activity in melanoma cells by a BODIPY-based fluorescent probe. <i>Chemical Communications</i> , 2011 , 47, 12640-2	5.8	78
247	Adhesion hysteresis of Janus nanopillars fabricated by nanomolding and oblique metal deposition. <i>Nano Today</i> , 2009 , 4, 385-392	17.9	76
246	Wettability-controllable super water- and moderately oil-repellent surface fabricated by wet chemical etching. <i>Langmuir</i> , 2009 , 25, 6576-9	4	76
245	Comparison between arginine conjugated PAMAM dendrimers with structural diversity for gene delivery systems. <i>Journal of Controlled Release</i> , 2009 , 136, 132-9	11.7	73
244	Functional composite nanofibers of poly(lactide-co-caprolactone) containing gelatin-apatite bone mimetic precipitate for bone regeneration. <i>Acta Biomaterialia</i> , 2011 , 7, 1609-17	10.8	70
243	Synthesis and characterization of a novel arginine-grafted dendritic block copolymer for gene delivery and study of its cellular uptake pathway leading to transfection. <i>Bioconjugate Chemistry</i> , 2007 , 18, 309-17	6.3	70
242	Fabrication of antireflection and antifogging polymer sheet by partial photopolymerization and dry etching. <i>Langmuir</i> , 2010 , 26, 2240-3	4	69
241	Wet-Responsive, Reconfigurable, and Biocompatible Hydrogel Adhesive Films for Transfer Printing of Nanomembranes. <i>Advanced Functional Materials</i> , 2018 , 28, 1706498	15.6	67
240	Comparative evaluation of nanofibrous scaffolding for bone regeneration in critical-size calvarial defects. <i>Tissue Engineering - Part A</i> , 2009 , 15, 2155-62	3.9	66
239	Materials and design of nanostructured broadband light absorbers for advanced light-to-heat conversion. <i>Nanoscale</i> , 2018 , 10, 21555-21574	7.7	65
238	Enhanced osteogenic promotion around dental implants with synthetic binding motif mimicking bone morphogenetic protein (BMP)-2. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 77, 599-607	5.4	64
237	Highly Sensitive Temperature Sensor: Ligand-Treated Ag Nanocrystal Thin Films on PDMS with Thermal Expansion Strategy. <i>Advanced Functional Materials</i> , 2019 , 29, 1903047	15.6	59
236	Ultra-Adaptable and Wearable Photonic Skin Based on a Shape-Memory, Responsive Cellulose Derivative. <i>Advanced Functional Materials</i> , 2019 , 29, 1902720	15.6	57
235	Ohmic contact formation mechanism of nonalloyed Pd contacts to p-type GaN observed by positron annihilation spectroscopy. <i>Applied Physics Letters</i> , 1999 , 74, 2289-2291	3.4	57

234	The effect of internal versus external abutment connection modes on crestal bone changes around dental implants: a radiographic analysis. <i>Journal of Periodontology</i> , 2012 , 83, 1104-9	4.6	53
233	Fabrication of Releasable Single-Crystal Silicon Metal Oxide Field-Effect Devices and Their Deterministic Assembly on Foreign Substrates. <i>Advanced Functional Materials</i> , 2011 , 21, 3029-3036	15.6	52
232	Biomimetic approach to dental implants. <i>Current Pharmaceutical Design</i> , 2008 , 14, 2201-11	3.3	51
231	Evaluation of the correlation between insertion torque and primary stability of dental implants using a block bone test. <i>Journal of Periodontal and Implant Science</i> , 2013 , 43, 30-6	2	49
230	Synthesis of biodegradable cross-linked poly(beta-amino ester) for gene delivery and its modification, inducing enhanced transfection efficiency and stepwise degradation. <i>Bioconjugate Chemistry</i> , 2005 , 16, 1140-8	6.3	48
229	Gelatin Hydrogel-Based Organic Electrochemical Transistors and Their Integrated Logic Circuits. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39083-39090	9.5	48
228	Enhanced bone augmentation by controlled release of recombinant human bone morphogenetic protein-2 from bioabsorbable membranes. <i>Journal of Periodontology</i> , 2003 , 74, 865-72	4.6	46
227	Effective Assembly of Nano-Ceramic Materials for High and Anisotropic Thermal Conductivity in a Polymer Composite. <i>Polymers</i> , 2017 , 9,	4.5	45
226	Flexible vertical light emitting diodes. <i>Small</i> , 2012 , 8, 3123-8	11	44
225	A gold nanoparticle-based fluorescence turn-on probe for highly sensitive detection of polyamines. <i>Chemistry - A European Journal</i> , 2011 , 17, 11978-82	4.8	43
224	Immunomodulatory effect of canine periodontal ligament stem cells on allogenic and xenogenic peripheral blood mononuclear cells. <i>Journal of Periodontal and Implant Science</i> , 2010 , 40, 265-70	2	39
223	Deep Learning Hybrid Method to Automatically Diagnose Periodontal Bone Loss and Stage Periodontitis. <i>Scientific Reports</i> , 2020 , 10, 7531	4.9	38
222	A semi-permanent and durable nanoscale-crack-based sensor by on-demand healing. <i>Nanoscale</i> , 2018 , 10, 4354-4360	7.7	38
221	Shape-tunable polymer nanofibrillar structures by oblique electron beam irradiation. <i>Langmuir</i> , 2009 , 25, 8879-82	4	37
220	An iminocoumarin-based fluorescent probe for the selective detection of dual-specific protein tyrosine phosphatases. <i>Chemistry - A European Journal</i> , 2010 , 16, 5297-300	4.8	36
219	Simple fabrication of nanostructure by continuous rigiflex imprinting. <i>Microelectronic Engineering</i> , 2007 , 84, 567-572	2.5	36
218	Multiaxial and Transparent Strain Sensors Based on Synergetically Reinforced and Orthogonally Cracked Hetero-Nanocrystal Solids. <i>Advanced Functional Materials</i> , 2019 , 29, 1806714	15.6	36
217	Surface treatment of silica nanoparticles for stable and charge-controlled colloidal silica. <i>International Journal of Nanomedicine</i> , 2014 , 9 Suppl 2, 29-40	7.3	35

216	Drug-loaded titanium dioxide nanoparticle coated with tumor targeting polymer as a sonodynamic chemotherapeutic agent for anti-cancer therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 24, 102110	6	35
215	Optical lithography with printed metal mask and a simple superhydrophobic surface. <i>Small</i> , 2008 , 4, 182-51	5	34
214	Hybrid Architectures of Heterogeneous Carbon Nanotube Composite Microstructures Enable Multiaxial Strain Perception with High Sensitivity and Ultrabroad Sensing Range. <i>Small</i> , 2018 , 14, e1803411	11	34
213	Biological effects of a semiconductor diode laser on human periodontal ligament fibroblasts. <i>Journal of Periodontal and Implant Science</i> , 2010 , 40, 105-10	2	33
212	Gold nanocones fabricated by nanotransfer printing and their application for field emission. <i>Nanotechnology</i> , 2008 , 19, 295302	3-4	33
211	An on-skin platform for wireless monitoring of flow rate, cumulative loss and temperature of sweat in real time. <i>Nature Electronics</i> , 2021 , 4, 302-312	28.4	33
210	Biocompatible and Biodegradable Organic Transistors Using a Solid-State Electrolyte Incorporated with Choline-Based Ionic Liquid and Polysaccharide. <i>Advanced Functional Materials</i> , 2020 , 30, 1909707	15.6	32
209	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. <i>Chemistry of Materials</i> , 2014 , 26, 3502-3507	9.6	32
208	Highly selective fluorescence turn-on sensing of gold ions by a nanoparticle generation/C-I bond cleavage sequence. <i>Analyst, The</i> , 2012 , 137, 4411-4	5	31
207	Porphyromonas gingivalis-derived lipopolysaccharide-mediated activation of MAPK signaling regulates inflammatory response and differentiation in human periodontal ligament fibroblasts. <i>Journal of Microbiology</i> , 2012 , 50, 311-9	3	31
206	Temperature- and size-dependent characteristics in ultrathin inorganic light-emitting diodes assembled by transfer printing. <i>Applied Physics Letters</i> , 2014 , 104, 051901	3-4	30
205	Large-area dual-scale metal transfer by adhesive force. <i>Small</i> , 2009 , 5, 928-32	11	30
204	Capillary force lithography with impermeable molds. <i>Applied Physics Letters</i> , 2006 , 88, 254104	3-4	30
203	Deterministic assembly of releasable single crystal silicon-metal oxide field-effect devices formed from bulk wafers. <i>Applied Physics Letters</i> , 2013 , 102, 182104	3-4	29
202	Microscale Inorganic Light-Emitting Diodes on Flexible and Stretchable Substrates. <i>IEEE Photonics Journal</i> , 2012 , 4, 607-612	1.8	29
201	Bone regeneration by bioactive hybrid membrane containing FGF2 within rat calvarium. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 1187-94	5-4	29
200	Chronic and acute stress monitoring by electrophysiological signals from adrenal gland. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1146-1151	11.5	29
199	Rapid, specific, and ultrasensitive fluorogenic sensing of phosgene through an enhanced PeT mechanism. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 458-462	8.5	28

198	Targeted calcium influx boosts cytotoxic T lymphocyte function in the tumour microenvironment. <i>Nature Communications</i> , 2017 , 8, 15365	17.4	27
197	Osteopromotion with synthetic oligopeptide-coated bovine bone mineral in vivo. <i>Journal of Periodontology</i> , 2007 , 78, 157-63	4.6	27
196	Electrochemical deposition of dopamine-hyaluronic acid conjugates for anti-biofouling bioelectrodes. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4507-4513	7.3	26
195	On-Demand Drug Release from Gold Nanoturf for a Thermo- and Chemotherapeutic Esophageal Stent. <i>ACS Nano</i> , 2018 , 12, 6756-6766	16.7	26
194	Effects of the incorporation of ϵ -aminocaproic acid/chitosan particles to fibrin on cementoblast differentiation and cementum regeneration. <i>Acta Biomaterialia</i> , 2017 , 61, 134-143	10.8	26
193	Microgrooves on titanium surface affect peri-implant cell adhesion and soft tissue sealing; an in vitro and in vivo study. <i>Journal of Periodontal and Implant Science</i> , 2015 , 45, 120-6	2	26
192	Ultra-mechanically stable and transparent conductive electrodes using transferred grid of Ag nanowires on flexible substrate. <i>Current Applied Physics</i> , 2016 , 16, 24-30	2.6	25
191	Biosafe, Eco-Friendly Levan Polysaccharide toward Transient Electronics. <i>Small</i> , 2018 , 14, e1801332	11	24
190	Injectable Biomedical Devices for Sensing and Stimulating Internal Body Organs. <i>Advanced Materials</i> , 2020 , 32, e1907478	24	23
189	Surface energy tunable nanohairy dry adhesive by broad ion beam irradiation. <i>Soft Matter</i> , 2012 , 8, 1673-1680	3.68	23
188	Squaraine Dyes for Photovoltaic and Biomedical Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2008201	15.6	23
187	Controllable Configuration of Sensing Band in a Pressure Sensor by Lenticular Pattern Deformation on Designated Electrodes. <i>Advanced Materials</i> , 2019 , 31, e1902689	24	22
186	Anticancer drug-incorporated layered double hydroxide nanohybrids and their enhanced anticancer therapeutic efficacy in combination cancer treatment. <i>BioMed Research International</i> , 2014 , 2014, 193401	3	22
185	Thermal properties of microscale inorganic light-emitting diodes in a pulsed operation. <i>Journal of Applied Physics</i> , 2013 , 113, 144505	2.5	22
184	Polymer transfected primary myoblasts mediated efficient gene expression and angiogenic proliferation. <i>Journal of Controlled Release</i> , 2010 , 142, 61-9	11.7	22
183	Fibronectin fragment promotes osteoblast-associated gene expression and biological activity of human osteoblast-like cell. <i>Biotechnology Letters</i> , 2003 , 25, 2007-11	3	22
182	The effects of the modulation of the fibronectin-binding capacity of fibrin by thrombin on osteoblast differentiation. <i>Biomaterials</i> , 2012 , 33, 4089-99	15.6	21
181	Analysis of preload-dependent reversible mechanical interlocking using beetle-inspired wing locking device. <i>Langmuir</i> , 2012 , 28, 2181-6	4	21

180	Strain-Visualization with Ultrasensitive Nanoscale Crack-Based Sensor Assembled with Hierarchical Thermochromic Membrane. <i>Advanced Functional Materials</i> , 2019 , 29, 1903360	15.6	20
179	Thermal analysis of injectable, cellular-scale optoelectronics with pulsed power. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20130142	2.4	20
178	Thin pentacene interlayer for polymer bulk-heterojunction solar cell. <i>Applied Physics Letters</i> , 2008 , 93, 143305	3.4	20
177	Cationic methylcellulose derivative with serum-compatibility and endosome buffering ability for gene delivery systems. <i>Carbohydrate Polymers</i> , 2014 , 110, 268-77	10.3	18
176	Omnidirectional, Broadband Light Absorption in a Hierarchical Nanoturf Membrane for an Advanced Solar-Vapor Generator. <i>Advanced Functional Materials</i> , 2020 , 30, 2003862	15.6	18
175	Analysis of histone deacetylase inhibitor-induced responses in human periodontal ligament fibroblasts. <i>Biotechnology Letters</i> , 2013 , 35, 129-33	3	17
174	Design and biological activity of synthetic oligopeptides with Pro-His-Ser-Arg-Asn (PHSRN) and Arg-Gly-Asp (RGD) motifs for human osteoblast-like cell (MG-63) adhesion. <i>Biotechnology Letters</i> , 2002 , 24, 2029-2033	3	17
173	The relationship between dental implant stability and trabecular bone structure using cone-beam computed tomography. <i>Journal of Periodontal and Implant Science</i> , 2016 , 46, 116-27	2	17
172	Bone regeneration effects of human allogeneous bone substitutes: a preliminary study. <i>Journal of Periodontal and Implant Science</i> , 2010 , 40, 132-8	2	16
171	Effect of scaling and root planing on alveolar bone as measured by subtraction radiography. <i>Journal of Periodontology</i> , 2008 , 79, 1663-9	4.6	16
170	Phenylboronic Acid-polymers for Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2019 , 26, 6797-6816	4.6	16
169	Comparison of dental implant stabilities by impact response and resonance frequencies using artificial bone. <i>Medical Engineering and Physics</i> , 2014 , 36, 715-20	2.4	15
168	Erythropoietin gene delivery using an arginine-grafted bioreducible polymer system. <i>Journal of Controlled Release</i> , 2012 , 157, 437-44	11.7	15
167	Anticancer activity of ferulic acid-inorganic nanohybrids synthesized via two different hybridization routes, reconstruction and exfoliation-reassembly. <i>Scientific World Journal, The</i> , 2013 , 2013, 421967	2.2	15
166	Enhanced ridge preservation by bone mineral bound with collagen-binding synthetic oligopeptide: a clinical and histologic study in humans. <i>Journal of Periodontology</i> , 2011 , 82, 471-80	4.6	15
165	Layered Double Hydroxide Nanomaterials Encapsulating Nakai Extract for Potential Anticancer Nanomedicine. <i>Frontiers in Pharmacology</i> , 2018 , 9, 723	5.6	14
164	Comparison of alveolar ridge preservation methods using three-dimensional micro-computed tomographic analysis and two-dimensional histometric evaluation. <i>Imaging Science in Dentistry</i> , 2014 , 44, 143-8	2.2	14
163	Development of 3D statistical mandible models for cephalometric measurements. <i>Imaging Science in Dentistry</i> , 2012 , 42, 175-82	2.2	14

162	Development of animal experimental periodontitis models. <i>Journal of Periodontal and Implant Science</i> , 2013 , 43, 147-52	2	14
161	Comparative evaluation of the biological properties of fibrin for bone regeneration. <i>BMB Reports</i> , 2014 , 47, 110-4	5.5	14
160	Periodontal pathogens and the association between periodontitis and rheumatoid arthritis in Korean adults. <i>Journal of Periodontal and Implant Science</i> , 2018 , 48, 347-359	2	14
159	Agmatine-Containing Bioreducible Polymer for Gene Delivery Systems and Its Dual Degradation Behavior. <i>Biomacromolecules</i> , 2015 , 16, 2715-25	6.9	13
158	Geometry-controllable graphene layers and their application for supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8070-5	9.5	13
157	Improved accuracy in periodontal pocket depth measurement using optical coherence tomography. <i>Journal of Periodontal and Implant Science</i> , 2017 , 47, 13-19	2	13
156	Therapeutic gene delivery using bioreducible polymers. <i>Archives of Pharmacol Research</i> , 2014 , 37, 31-42	6.1	13
155	Ex vivo bone morphogenetic protein-2 gene delivery using bone marrow stem cells in rabbit maxillary sinus augmentation in conjunction with implant placement. <i>Journal of Periodontology</i> , 2013 , 84, 985-94	4.6	13
154	Recent Advances in Unconventional Lithography for Challenging 3D Hierarchical Structures and Their Applications. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-17	3.2	13
153	Permeability- and Surface-Energy-Tunable Polyurethane Acrylate Molds for Capillary Force Lithography. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23824-30	9.5	12
152	Stretchable, Patch-Type Calorie-Expenditure Measurement Device Based on Pop-Up Shaped Nanoscale Crack-Based Sensor. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801593	10.1	12
151	Snail-Inspired Dry Adhesive with Embedded Microstructures for Enhancement of Energy Dissipation. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900316	6.8	12
150	Efficient GLP-1 gene delivery using two-step transcription amplification plasmid system with a secretion signal peptide and arginine-grafted bioreducible polymer. <i>Journal of Controlled Release</i> , 2012 , 157, 243-8	11.7	12
149	Highly durable and unidirectionally stooped polymeric nanohairs for gecko-like dry adhesive. <i>Nanotechnology</i> , 2015 , 26, 415301	3.4	12
148	Response of osteoblast-like cells cultured on zirconia to bone morphogenetic protein-2. <i>Journal of Periodontal and Implant Science</i> , 2011 , 41, 227-33	2	12
147	Biological effects of a porcine-derived collagen membrane on intrabony defects. <i>Journal of Periodontal and Implant Science</i> , 2010 , 40, 232-8	2	12
146	Enhanced bone regeneration in beagle dogs with bovine bone mineral coated with a synthetic oligopeptide. <i>Journal of Periodontology</i> , 2007 , 78, 2150-5	4.6	12
145	Changes in dental care access upon health care benefit expansion to include scaling. <i>Journal of Periodontal and Implant Science</i> , 2016 , 46, 405-414	2	12

144	Surface Modification of Gallium-Based Liquid Metals: Mechanisms and Applications in Biomedical Sensors and Soft Actuators. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000159	6	12
143	pH-Responsive Charge-Conversional Poly(ethylene imine)-Poly(L-lysine)-Poly(L-glutamic acid) with Self-Assembly and Endosome Buffering Ability for Gene Delivery Systems.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1496-1504	4.1	12
142	A Soft Variable-Area Electrical-Double-Layer Energy Harvester. <i>Advanced Materials</i> , 2021 , 33, e2103142	24	12
141	Designs and processes toward high-aspect-ratio nanostructures at the deep nanoscale: unconventional nanolithography and its applications. <i>Nanotechnology</i> , 2016 , 27, 474001	3.4	11
140	Socket preservation using deproteinized horse-derived bone mineral. <i>Journal of Periodontal and Implant Science</i> , 2010 , 40, 227-31	2	11
139	Effect of hydroxyapatite-coated nanofibrous membrane on the responses of human periodontal ligament fibroblast. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 31-35	1	11
138	A Liquid Metal Mediated Metallic Coating for Antimicrobial and Antiviral Fabrics. <i>Advanced Materials</i> , 2021 , 33, e2104298	24	11
137	Electrically Robust Single-Crystalline WTe Nanobelts for Nanoscale Electrical Interconnects. <i>Advanced Science</i> , 2019 , 6, 1801370	13.6	10
136	Percolation-Controlled Metal/Polyelectrolyte Complexed Films for All-Solution-Processable Electrical Conductors. <i>Advanced Functional Materials</i> , 2016 , 26, 8726-8734	15.6	10
135	Periodontal regeneration capacity of equine particulate bone in canine alveolar bone defects. <i>Journal of Periodontal and Implant Science</i> , 2010 , 40, 220-6	2	10
134	The clinical effects of a hydroxyapatite containing toothpaste for dentine hypersensitivity. <i>The Journal of the Korean Academy of Periodontology</i> , 2009 , 39, 87		10
133	Identification of N-methyl-D-aspartate receptor subunit in human periodontal ligament fibroblasts: potential role in regulating differentiation. <i>Journal of Periodontology</i> , 2009 , 80, 338-46	4.6	10
132	Releasable High-Performance GaAs Schottky Diodes for Gigahertz Operation of Flexible Bridge Rectifier. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800772	6.4	10
131	Carbon aerogel reinforced PDMS nanocomposites with controllable and hierarchical microstructures for multifunctional wearable devices. <i>Carbon</i> , 2021 , 171, 758-767	10.4	10
130	Discriminant analysis for the thin periodontal biotype based on the data acquired from three-dimensional virtual models of Korean young adults. <i>Journal of Periodontology</i> , 2013 , 84, 1638-45	4.6	9
129	Enhanced Osteogenic Commitment of Human Mesenchymal Stem Cells on Polyethylene Glycol-Based Cryogel with Graphene Oxide Substrate. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2470-2479	5.5	9
128	Effect of pH-Responsive Charge-Conversional Polymer Coating to Cationic Reduced Graphene Oxide Nanostructures for Tumor Microenvironment-Targeted Drug Delivery Systems. <i>Nanomaterials</i> , 2019 , 9,	5.4	8
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