

Tae-il Kim

List of Publications by Year in descending order

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Version: 2024-02-01

310
papers

19,858
citations

20759

60
h-index

11288

136
g-index

323
all docs

323
docs citations

323
times ranked

23866
citing authors

#	ARTICLE	IF	CITATIONS
1	Epidermal Electronics. <i>Science</i> , 2011, 333, 838-843.	6.0	3,944
2	A flexible and highly sensitive strain-gauge sensor using reversible interlocking of nanofibres. <i>Nature Materials</i> , 2012, 11, 795-801.	13.3	1,453
3	Ultrasensitive mechanical crack-based sensor inspired by the spider sensory system. <i>Nature</i> , 2014, 516, 222-226.	13.7	1,196
4	Stretchable batteries with self-similar serpentine interconnects and integrated wireless recharging systems. <i>Nature Communications</i> , 2013, 4, 1543.	5.8	1,169
5	Injectable, Cellular-Scale Optoelectronics with Applications for Wireless Optogenetics. <i>Science</i> , 2013, 340, 211-216.	6.0	1,010
6	Soft, stretchable, fully implantable miniaturized optoelectronic systems for wireless optogenetics. <i>Nature Biotechnology</i> , 2015, 33, 1280-1286.	9.4	658
7	Photothermally Triggered Cytosolic Drug Delivery <i>via</i> Endosome Disruption Using a Functionalized Reduced Graphene Oxide. <i>ACS Nano</i> , 2013, 7, 6735-6746.	7.3	397
8	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017, 93, 509-521.e3.	3.8	323
9	Biological efficacy of silk fibroin nanofiber membranes for guided bone regeneration. <i>Journal of Biotechnology</i> , 2005, 120, 327-339.	1.9	312
10	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.	11.1	276
11	MXene/Polymer Hybrid Materials for Flexible AC-Filtering Electrochemical Capacitors. <i>Joule</i> , 2019, 3, 164-176.	11.7	250
12	Materials and Fabrication Processes for Transient and Bioresorbable High-Performance Electronics. <i>Advanced Functional Materials</i> , 2013, 23, 4087-4093.	7.8	222
13	PAMAM-PEG-PAMAM: Novel Triblock Copolymer as a Biocompatible and Efficient Gene Delivery Carrier. <i>Biomacromolecules</i> , 2004, 5, 2487-2492.	2.6	199
14	Bioinspired Electronics for Artificial Sensory Systems. <i>Advanced Materials</i> , 2019, 31, e1803637.	11.1	195
15	High-Efficiency, Microscale GaN Light-Emitting Diodes and Their Thermal Properties on Unusual Substrates. <i>Small</i> , 2012, 8, 1643-1649.	5.2	187
16	Fabrication and application of flexible, multimodal light-emitting devices for wireless optogenetics. <i>Nature Protocols</i> , 2013, 8, 2413-2428.	5.5	177
17	Arginine-grafted bio-reducible poly(disulfide amine) for gene delivery systems. <i>Biomaterials</i> , 2009, 30, 658-664.	5.7	169
18	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, 1815-1823.	1.7	163

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19	Stooped Nanohairs: Geometry-Controllable, Unidirectional, Reversible, and Robust Gecko-like Dry Adhesive. <i>Advanced Materials</i> , 2009, 21, 2276-2281.	11.1	159
20	Arginine-conjugated polypropylenimine dendrimer as a non-toxic and efficient gene delivery carrier. <i>Biomaterials</i> , 2007, 28, 2061-2067.	5.7	146
21	A fluorescent turn-on probe for the detection of alkaline phosphatase activity in living cells. <i>Chemical Communications</i> , 2011, 47, 9825.	2.2	146
22	A highly selective fluorescent ES IPT probe for the dual specificity phosphatase MKP-6. <i>Chemical Communications</i> , 2009, , 5895.	2.2	143
23	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.	7.8	140
24	Multilayer Transfer Printing for Pixelated, Multicolor Quantum Dot Light-Emitting Diodes. <i>ACS Nano</i> , 2016, 10, 4920-4925.	7.3	115
25	Low-Pressure Nanoimprint Lithography. <i>Nano Letters</i> , 2004, 4, 633-637.	4.5	113
26	Water-Soluble Thin Film Transistors and Circuits Based on Amorphous Indium-Gallium-Zinc Oxide. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8268-8274.	4.0	113
27	Bioreducible polymers for gene delivery. <i>Reactive and Functional Polymers</i> , 2011, 71, 344-349.	2.0	112
28	Materials and design of nanostructured broadband light absorbers for advanced light-to-heat conversion. <i>Nanoscale</i> , 2018, 10, 21555-21574.	2.8	111
29	Deep Learning Hybrid Method to Automatically Diagnose Periodontal Bone Loss and Stage Periodontitis. <i>Scientific Reports</i> , 2020, 10, 7531.	1.6	111
30	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.	13.1	110
31	A BODIPY-Based Probe for the Selective Detection of Hypochlorous Acid in Living Cells. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1358-1361.	1.7	107
32	Bio-inspired slanted polymer nanohairs for anisotropic wetting and directional dry adhesion. <i>Soft Matter</i> , 2010, 6, 1849.	1.2	103
33	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.	7.8	103
34	Highly Sensitive Temperature Sensor: Ligand-Treated Ag Nanocrystal Thin Films on PDMS with Thermal Expansion Strategy. <i>Advanced Functional Materials</i> , 2019, 29, 1903047.	7.8	102
35	Unidirectional wetting and spreading on stooped polymer nanohairs. <i>Soft Matter</i> , 2009, 5, 4131.	1.2	99
36	Bioreducible polymers with cell penetrating and endosome buffering functionality for gene delivery systems. <i>Journal of Controlled Release</i> , 2011, 152, 110-119.	4.8	98

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37	A guanidynylated bio-reducible polymer with high nuclear localization ability for gene delivery systems. <i>Biomaterials</i> , 2010, 31, 1798-1804.	5.7	93
38	Materials and Designs for Wirelessly Powered Implantable Light-Emitting Systems. <i>Small</i> , 2012, 8, 2812-2818.	5.2	93
39	Bioinspired Reversible Interlocker Using Regularly Arrayed High Aspect-Ratio Polymer Fibers. <i>Advanced Materials</i> , 2012, 24, 475-479.	11.1	92
40	Visualization of tyrosinase activity in melanoma cells by a BODIPY-based fluorescent probe. <i>Chemical Communications</i> , 2011, 47, 12640.	2.2	90
41	Immunologic and Tissue Biocompatibility of Flexible/Stretchable Electronics and Optoelectronics. <i>Advanced Healthcare Materials</i> , 2014, 3, 515-525.	3.9	90
42	Ultra-Adaptable and Wearable Photonic Skin Based on a Shape-Memory, Responsive Cellulose Derivative. <i>Advanced Functional Materials</i> , 2019, 29, 1902720.	7.8	89
43	VEGF siRNA Delivery System Using Arginine-Grafted Bio-reducible Poly(disulfide amine). <i>Molecular Pharmaceutics</i> , 2009, 6, 718-726.	2.3	87
44	Apatite-mineralized polycaprolactone nanofibrous web as a bone tissue regeneration substrate. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 88A, 747-754.	2.1	86
45	Wet-Responsive, Reconfigurable, and Biocompatible Hydrogel Adhesive Films for Transfer Printing of Nanomembranes. <i>Advanced Functional Materials</i> , 2018, 28, 1706498.	7.8	84
46	A Liquid Metal Mediated Metallic Coating for Antimicrobial and Antiviral Fabrics. <i>Advanced Materials</i> , 2021, 33, e2104298.	11.1	84
47	A wireless haptic interface for programmable patterns of touch across large areas of the skin. <i>Nature Electronics</i> , 2022, 5, 374-385.	13.1	83
48	Wettability-Controllable Super Water- and Moderately Oil-Repellent Surface Fabricated by Wet Chemical Etching. <i>Langmuir</i> , 2009, 25, 6576-6579.	1.6	82
49	Adhesion hysteresis of Janus nanopillars fabricated by nanomolding and oblique metal deposition. <i>Nano Today</i> , 2009, 4, 385-392.	6.2	80
50	Comparison between arginine conjugated PAMAM dendrimers with structural diversity for gene delivery systems. <i>Journal of Controlled Release</i> , 2009, 136, 132-139.	4.8	77
51	Functional composite nanofibers of poly(lactide-co-caprolactone) containing gelatin-apatite bone mimetic precipitate for bone regeneration. <i>Acta Biomaterialia</i> , 2011, 7, 1609-1617.	4.1	76
52	Comparative Evaluation of Nanofibrous Scaffolding for Bone Regeneration in Critical-Size Calvarial Defects. <i>Tissue Engineering - Part A</i> , 2009, 15, 2155-2162.	1.6	75
53	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, 309-317.	1.8	74
54	Cuticular pad-inspired selective frequency damper for nearly dynamic noise-free bioelectronics. <i>Science</i> , 2022, 376, 624-629.	6.0	74

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55	Fabrication of Antireflection and Antifogging Polymer Sheet by Partial Photopolymerization and Dry Etching. <i>Langmuir</i> , 2010, 26, 2240-2243.	1.6	71
56	Gelatin Hydrogel-Based Organic Electrochemical Transistors and Their Integrated Logic Circuits. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39083-39090.	4.0	71
57	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, 77A, 599-607.	2.1	68
58	Effective Assembly of Nano-Ceramic Materials for High and Anisotropic Thermal Conductivity in a Polymer Composite. <i>Polymers</i> , 2017, 9, 413.	2.0	66
59	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, 1104-1109.	1.7	65
60	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.	1.5	62
61	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.	0.9	60
62	Biomimetic Approach to Dental Implants. <i>Current Pharmaceutical Design</i> , 2008, 14, 2201-2211.	0.9	59
63	Squaraine Dyes for Photovoltaic and Biomedical Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2008201.	7.8	59
64	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.	7.8	56
65	Enhanced Bone Augmentation by Controlled Release of Recombinant Human Bone Morphogenetic Protein-2 from Bioabsorbable Membranes. <i>Journal of Periodontology</i> , 2003, 74, 865-872.	1.7	55
66	Flexible Vertical Light Emitting Diodes. <i>Small</i> , 2012, 8, 3123-3128.	5.2	54
67	Surface treatment of silica nanoparticles for stable and charge-controlled colloidal silica. <i>International Journal of Nanomedicine</i> , 2014, 9 Suppl 2, 29.	3.3	54
68	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.	1.7	54
69	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.	7.8	53
70	A semi-permanent and durable nanoscale-crack-based sensor by on-demand healing. <i>Nanoscale</i> , 2018, 10, 4354-4360.	2.8	52
71	Synthesis of Biodegradable Cross-Linked Poly(β -amino ester) for Gene Delivery and Its Modification, Inducing Enhanced Transfection Efficiency and Stepwise Degradation. <i>Bioconjugate Chemistry</i> , 2005, 16, 1140-1148.	1.8	51
72	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.	5.2	51

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73	A Gold Nanoparticle-Based Fluorescence Turn-On Probe for Highly Sensitive Detection of Polyamines. <i>Chemistry - A European Journal</i> , 2011, 17, 11978-11982.	1.7	49
74	Omnidirectional, Broadband Light Absorption in a Hierarchical Nanoturf Membrane for an Advanced Solar Vapor Generator. <i>Advanced Functional Materials</i> , 2020, 30, 2003862.	7.8	48
75	Biological effects of a semiconductor diode laser on human periodontal ligament fibroblasts. <i>Journal of Periodontal and Implant Science</i> , 2010, 40, 105.	0.9	46
76	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.	3.3	45
77	Rapid, specific, and ultrasensitive fluorogenic sensing of phosgene through an enhanced PeT mechanism. <i>Sensors and Actuators B: Chemical</i> , 2019, 283, 458-462.	4.0	45
78	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.	0.9	42
79	Injectable Biomedical Devices for Sensing and Stimulating Internal Body Organs. <i>Advanced Materials</i> , 2020, 32, e1907478.	11.1	42
80	Bone regeneration by bioactive hybrid membrane containing FGF2 within rat calvarium. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 1187-1194.	2.1	41
81	Targeted calcium influx boosts cytotoxic T lymphocyte function in the tumour microenvironment. <i>Nature Communications</i> , 2017, 8, 15365.	5.8	41
82	Multiaxial and Transparent Strain Sensors Based on Synergetically Reinforced and Orthogonally Cracked Hetero-Nanocrystal Solids. <i>Advanced Functional Materials</i> , 2019, 29, 1806714.	7.8	41
83	Shape-Tunable Polymer Nanofibrillar Structures by Oblique Electron Beam Irradiation. <i>Langmuir</i> , 2009, 25, 8879-8882.	1.6	39
84	Surface Modification of Gallium-Based Liquid Metals: Mechanisms and Applications in Biomedical Sensors and Soft Actuators. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000159.	3.3	39
85	An Iminocoumarin-Based Fluorescent Probe for the Selective Detection of Dual-Specific Protein Tyrosine Phosphatases. <i>Chemistry - A European Journal</i> , 2010, 16, 5297-5300.	1.7	38
86	Simple fabrication of nanostructure by continuous rigiflex imprinting. <i>Microelectronic Engineering</i> , 2007, 84, 567-572.	1.1	37
87	Optical Lithography with Printed Metal Mask and a Simple Superhydrophobic Surface. <i>Small</i> , 2008, 4, 182-185.	5.2	37
88	Highly selective fluorescence turn-on sensing of gold ions by a nanoparticle generation/C=C bond cleavage sequence. <i>Analyst</i> , 2012, 137, 4411.	1.7	37
89	Microgrooves on titanium surface affect peri-implant cell adhesion and soft tissue sealing; an <i>in vitro</i> and <i>in vivo</i> study. <i>Journal of Periodontal and Implant Science</i> , 2015, 45, 120.	0.9	37
90	Effects of the incorporation of $\hat{\mu}$ -aminocaproic acid/chitosan particles to fibrin on cementoblast differentiation and cementum regeneration. <i>Acta Biomaterialia</i> , 2017, 61, 134-143.	4.1	37

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91	Strain-Visualization with Ultrasensitive Nanoscale Crack-Based Sensor Assembled with Hierarchical Thermochromic Membrane. <i>Advanced Functional Materials</i> , 2019, 29, 1903360.	7.8	36
92	Capillary force lithography with impermeable molds. <i>Applied Physics Letters</i> , 2006, 88, 254104.	1.5	35
93	Temperature- and size-dependent characteristics in ultrathin inorganic light-emitting diodes assembled by transfer printing. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	35
94	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. <i>Chemistry of Materials</i> , 2014, 26, 3502-3507.	3.2	35
95	Gold nanocones fabricated by nanotransfer printing and their application for field emission. <i>Nanotechnology</i> , 2008, 19, 295302.	1.3	34
96	Deterministic assembly of releasable single crystal silicon-metal oxide field-effect devices formed from bulk wafers. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	34
97	On-Demand Drug Release from Gold Nanoturf for a Thermo- and Chemotherapeutic Esophageal Stent. <i>ACS Nano</i> , 2018, 12, 6756-6766.	7.3	34
98	Microscale Inorganic Light-Emitting Diodes on Flexible and Stretchable Substrates. <i>IEEE Photonics Journal</i> , 2012, 4, 607-612.	1.0	33
99	<i>Porphyromonas gingivalis</i> -derived lipopolysaccharide-mediated activation of MAPK signaling regulates inflammatory response and differentiation in human periodontal ligament fibroblasts. <i>Journal of Microbiology</i> , 2012, 50, 311-319.	1.3	33
100	Biosafe, Eco-Friendly Levan Polysaccharide toward Transient Electronics. <i>Small</i> , 2018, 14, e1801332.	5.2	33
101	Controllable Configuration of Sensing Band in a Pressure Sensor by Lenticular Pattern Deformation on Designated Electrodes. <i>Advanced Materials</i> , 2019, 31, e1902689.	11.1	33
102	A Soft Variable-Area Electrical-Double-Layer Energy Harvester. <i>Advanced Materials</i> , 2021, 33, e2103142.	11.1	33
103	Large-Area Dual-Scale Metal Transfer by Adhesive Force. <i>Small</i> , 2009, 5, 928-932.	5.2	32
104	Electrochemical deposition of dopamine-hyaluronic acid conjugates for anti-biofouling bioelectrodes. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4507-4513.	2.9	32
105	Anticancer Drug-Incorporated Layered Double Hydroxide Nanohybrids and Their Enhanced Anticancer Therapeutic Efficacy in Combination Cancer Treatment. <i>BioMed Research International</i> , 2014, 2014, 1-11.	0.9	31
106	Osteopromotion With Synthetic Oligopeptide-Coated Bovine Bone Mineral In Vivo. <i>Journal of Periodontology</i> , 2007, 78, 157-163.	1.7	29
107	Carbon aerogel reinforced PDMS nanocomposites with controllable and hierarchical microstructures for multifunctional wearable devices. <i>Carbon</i> , 2021, 171, 758-767.	5.4	29
108	Phenylboronic Acid-polymers for Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2019, 26, 6797-6816.	1.2	29

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109	Wearable EEG electronics for a Brain- α AI Closed-Loop System to enhance autonomous machine decision-making. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	29
110	Analysis of Preload-Dependent Reversible Mechanical Interlocking Using Beetle-Inspired Wing Locking Device. <i>Langmuir</i> , 2012, 28, 2181-2186.	1.6	27
111	The effects of the modulation of the fibronectin-binding capacity of fibrin by thrombin on osteoblast differentiation. <i>Biomaterials</i> , 2012, 33, 4089-4099.	5.7	27
112	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.	1.1	27
113	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.	0.9	26
114	Snail-Inspired Dry Adhesive with Embedded Microstructures for Enhancement of Energy Dissipation. <i>Advanced Materials Technologies</i> , 2019, 4, 1900316.	3.0	26
115	Thin pentacene interlayer for polymer bulk-heterojunction solar cell. <i>Applied Physics Letters</i> , 2008, 93, 143305.	1.5	25
116	Avoiding heating interference and guided thermal conduction in stretchable devices using thermal conductive composite islands. <i>Nano Research</i> , 2021, 14, 3253-3259.	5.8	25
117	Noninterference Wearable Strain Sensor: Near-Zero Temperature Coefficient of Resistance Nanoparticle Arrays with Thermal Expansion and Transport Engineering. <i>ACS Nano</i> , 2021, 15, 8120-8129.	7.3	25
118	Polymer transfected primary myoblasts mediated efficient gene expression and angiogenic proliferation. <i>Journal of Controlled Release</i> , 2010, 142, 61-69.	4.8	24
119	Surface energy tunable nanohairy dry adhesive by broad ion beam irradiation. <i>Soft Matter</i> , 2012, 8, 1673-1680.	1.2	24
120	Thermal properties of microscale inorganic light-emitting diodes in a pulsed operation. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	24
121	Materials and device design for advanced phototherapy systems. <i>Advanced Drug Delivery Reviews</i> , 2022, 186, 114339.	6.6	24
122	Fibronectin fragment promotes osteoblast-associated gene expression and biological activity of human osteoblast-like cell. <i>Biotechnology Letters</i> , 2003, 25, 2007-2011.	1.1	23
123	Skin-Inspired Capacitive Stress Sensor with Large Dynamic Range via Bilayer Liquid Metal Elastomers. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	23
124	Analysis of histone deacetylase inhibitor-induced responses in human periodontal ligament fibroblasts. <i>Biotechnology Letters</i> , 2013, 35, 129-133.	1.1	22
125	Comparison of dental implant stabilities by impact response and resonance frequencies using artificial bone. <i>Medical Engineering and Physics</i> , 2014, 36, 715-720.	0.8	22
126	Layered Double Hydroxide Nanomaterials Encapsulating <i>Angelica gigas</i> Nakai Extract for Potential Anticancer Nanomedicine. <i>Frontiers in Pharmacology</i> , 2018, 9, 723.	1.6	22

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127	Stretchable, Patch-Type Calorie Expenditure Measurement Device Based on Pop-Up Shaped Nanoscale Crack-Based Sensor. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801593.	3.9	21
128	Comparative evaluation of the biological properties of fibrin for bone regeneration. <i>BMB Reports</i> , 2014, 47, 110-114.	1.1	21
129	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.	1.0	20
130	Cationic methylcellulose derivative with serum-compatibility and endosome buffering ability for gene delivery systems. <i>Carbohydrate Polymers</i> , 2014, 110, 268-277.	5.1	20
131	Changes in dental care access upon health care benefit expansion to include scaling. <i>Journal of Periodontal and Implant Science</i> , 2016, 46, 405.	0.9	20
132	Fibrillary gelation and dedoping of PEDOT:PSS fibers for interdigitated organic electrochemical transistors and circuits. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	20
133	Effect of Scaling and Root Planing on Alveolar Bone as Measured by Subtraction Radiography. <i>Journal of Periodontology</i> , 2008, 79, 1663-1669.	1.7	19
134	Development of 3D statistical mandible models for cephalometric measurements. <i>Imaging Science in Dentistry</i> , 2012, 42, 175.	0.6	19
135	Anticancer Activity of Ferulic Acid-Inorganic Nanohybrids Synthesized via Two Different Hybridization Routes, Reconstruction and Exfoliation-Reassembly. <i>Scientific World Journal</i> , The, 2013, 2013, 1-9.	0.8	19
136	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 2029-2033.	1.1	18
137	Bone regeneration effects of human allogeneous bone substitutes: a preliminary study. <i>Journal of Periodontal and Implant Science</i> , 2010, 40, 132.	0.9	18
138	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, 471-480.	1.7	18
139	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, 1638-1645.	1.7	18
140	Designs and processes toward high-aspect-ratio nanostructures at the deep nanoscale: unconventional nanolithography and its applications. <i>Nanotechnology</i> , 2016, 27, 474001.	1.3	18
141	The clinical effects of a hydroxyapatite containing toothpaste for dentine hypersensitivity. <i>The Journal of the Korean Academy of Periodontology</i> , 2009, 39, 87.	0.1	17
142	Periodontal pathogens and the association between periodontitis and rheumatoid arthritis in Korean adults. <i>Journal of Periodontal and Implant Science</i> , 2018, 48, 347.	0.9	17
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.	2.3	17
144	Electrically Robust Single-Crystalline WTe ₂ Nanobelts for Nanoscale Electrical Interconnects. <i>Advanced Science</i> , 2019, 6, 1801370.	5.6	17

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145	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, 985-994.	1.7	16
146	Development of animal experimental periodontitis models. <i>Journal of Periodontal and Implant Science</i> , 2013, 43, 147.	0.9	16
147	An advanced navigational surgery system for dental implants completed in a single visit: An in vitro study. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2015, 43, 117-125.	0.7	16
148	Recent Advances in Unconventional Lithography for Challenging 3D Hierarchical Structures and Their Applications. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-17.	1.5	16
149	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.	2.6	16
150	Releasable High-Performance GaAs Schottky Diodes for Gigahertz Operation of Flexible Bridge Rectifier. <i>Advanced Electronic Materials</i> , 2019, 5, 1800772.	2.6	16
151	Nanoscale-Dewetting-Based Direct Interconnection of Microelectronics for a Deterministic Assembly of Transfer Printing. <i>Advanced Materials</i> , 2020, 32, e1908422.	11.1	16
152	Stretchable and Soft Organic-Ionic Devices for Body-Integrated Electronic Systems. <i>Advanced Materials Technologies</i> , 2022, 7, 2001273.	3.0	16
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