# Yang Chai

## List of Publications by Citations



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|---|---|---|---|
| 260 papers | 12,018 citations | 62 h-index | 101 g-index |
| 292 ext. papers | 15,508 ext. citations | 10.1 avg, IF | 6.94 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 260 | Recent advances in craniofacial morphogenesis. *Developmental Dynamics*, **2006**, 235, 2353-75 | 2.9 | 436 |
| 259 | Optoelectronic resistive random access memory for neuromorphic vision sensors. *Nature Nanotechnology*, **2019**, 14, 776-782 | 28.7 | 370 |
| 258 | High-Electron-Mobility and Air-Stable 2D Layered PtSe FETs. *Advanced Materials*, **2017**, 29, 1604230 | 24 | 368 |
| 257 | Extraordinarily Strong Interlayer Interaction in 2D Layered PtS2. *Advanced Materials*, **2016**, 28, 2399-407 | 24 | 322 |
| 256 | Stretchable all-solid-state supercapacitor with wavy shaped polyaniline/graphene electrode. *Journal of Materials Chemistry A*, **2014**, 2, 9142-9149 | 13 | 264 |
| 255 | Secretion of shh by a neurovascular bundle niche supports mesenchymal stem cell homeostasis in the adult mouse incisor. *Cell Stem Cell*, **2014**, 14, 160-73 | 18 | 264 |
| 254 | Fabrication of Nickel□Cobalt Bimetal Phosphide Nanocages for Enhanced Oxygen Evolution Catalysis. *Advanced Functional Materials*, **2018**, 28, 1706008 | 15.6 | 261 |
| 253 | Smart Textile-Integrated Microelectronic Systems for Wearable Applications. *Advanced Materials*, **2020**, 32, e1901958 | 24 | 218 |
| 252 | Fast, Self-Driven, Air-Stable, and Broadband Photodetector Based on Vertically Aligned PtSe2/GaAs Heterojunction. *Advanced Functional Materials*, **2018**, 28, 1705970 | 15.6 | 207 |
| 251 | The suture provides a niche for mesenchymal stem cells of craniofacial bones. *Nature Cell Biology*, **2015**, 17, 386-96 | 23.4 | 203 |
| 250 | Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. *Advanced Functional Materials*, **2019**, 29, 1806878 | 15.6 | 187 |
| 249 | Heterozygous loss of Six5 in mice is sufficient to cause ocular cataracts. *Nature Genetics*, **2000**, 25, 110-4 | 36.3 | 167 |
| 248 | High-responsivity UV-Vis Photodetector Based on Transferable WS2 Film Deposited by Magnetron Sputtering. *Scientific Reports*, **2016**, 6, 20343 | 4.9 | 156 |
| 247 | CeO2-Induced Interfacial Co2+ Octahedral Sites and Oxygen Vacancies for Water Oxidation. *ACS Catalysis*, **2019**, 9, 6484-6490 | 13.1 | 151 |
| 246 | Direct TEM observations of growth mechanisms of two-dimensional MoS2 flakes. *Nature Communications*, **2016**, 7, 12206 | 17.4 | 147 |
| 245 | Permeable superelastic liquid-metal fibre mat enables biocompatible and monolithic stretchable electronics. *Nature Materials*, **2021**, 20, 859-868 | 27 | 142 |
| 244 | Morphoregulation of teeth: modulating the number, size, shape and differentiation by tuning Bmp activity. *Evolution & Development*, **2005**, 7, 440-57 | 2.6 | 139 |

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| 243 | Few-layer Tellurium: one-dimensional-like layered elementary semiconductor with striking physical properties. *Science Bulletin*, **2018**, 63, 159-168 | 10.6 | 138 |
| 242 | Doping, Contact and Interface Engineering of Two-Dimensional Layered Transition Metal Dichalcogenides Transistors. *Advanced Functional Materials*, **2017**, 27, 1603484 | 15.6 | 134 |
| 241 | Few-Layered PtS2 Phototransistor on h-BN with High Gain. *Advanced Functional Materials*, **2017**, 27, 1701011 | 15.6 | 133 |
| 240 | Carrier Type Control of WSe2 Field-Effect Transistors by Thickness Modulation and MoO3 Layer Doping. *Advanced Functional Materials*, **2016**, 26, 4223-4230 | 15.6 | 133 |
| 239 | Modulation of the Reduction Potential of TiO by Fluorination for Efficient and Selective CH Generation from CO Photoreduction. *Nano Letters*, **2018**, 18, 3384-3390 | 11.5 | 130 |
| 238 | 2D Layered Materials of Rare-Earth Er-Doped MoS2 with NIR-to-NIR Down- and Up-Conversion Photoluminescence. *Advanced Materials*, **2016**, 28, 7472-7 | 24 | 130 |
| 237 | Controllable Growth of Large-Size Crystalline MoS2 and Resist-Free Transfer Assisted with a Cu Thin Film. *Scientific Reports*, **2015**, 5, 18596 | 4.9 | 130 |
| 236 | Low-Voltage, Optoelectronic CH3NH3PbI3−xClx Memory with Integrated Sensing and Logic Operations. *Advanced Functional Materials*, **2018**, 28, 1800080 | 15.6 | 124 |
| 235 | Fate of HERS during tooth root development. *Developmental Biology*, **2009**, 334, 22-30 | 3.1 | 124 |
| 234 | Near-sensor and in-sensor computing. *Nature Electronics*, **2020**, 3, 664-671 | 28.4 | 117 |
| 233 | Graphene-Draped Semiconductors for Enhanced Photocorrosion Resistance and Photocatalytic Properties. *Journal of the American Chemical Society*, **2017**, 139, 4144-4151 | 16.4 | 116 |
| 232 | Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. *Science Advances*, **2017**, 3, e1701186 | 14.3 | 115 |
| 231 | Perovskite Photovoltachromic Supercapacitor with All-Transparent Electrodes. *ACS Nano*, **2016**, 10, 5900-8 | 14.7 | 115 |
| 230 | Tuneable complementary metamaterial structures based on graphene for single and multiple transparency windows. *Scientific Reports*, **2014**, 4, 6128 | 4.9 | 113 |
| 229 | A long-term corrosion barrier with an insulating boron nitride monolayer. *Journal of Materials Chemistry A*, **2016**, 4, 5044-5050 | 13 | 110 |
| 228 | Carbon nanotube thermal interface material for high-brightness light-emitting-diode cooling. *Nanotechnology*, **2008**, 19, 215706 | 3.4 | 108 |
| 227 | Stretchable elastic synaptic transistors for neurologically integrated soft engineering systems. *Science Advances*, **2019**, 5, eaax4961 | 14.3 | 107 |
| 226 | Lattice oxygen activation enabled by high-valence metal sites for enhanced water oxidation. *Nature Communications*, **2020**, 11, 4066 | 17.4 | 105 |

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| 225 | Low voltage and high ON/OFF ratio field-effect transistors based on CVD MoS2 and ultra high-k gate dielectric PZT. *Nanoscale*, **2015**, 7, 8695-700 | 7.7 | 104 |
| 224 | Cellular and molecular mechanisms of tooth root development. *Development (Cambridge)*, **2017**, 144, 374-384 | 6.6 | 102 |
| 223 | Two-dimensional material membranes: an emerging platform for controllable mass transport applications. *Small*, **2014**, 10, 4521-42 | 11 | 98 |
| 222 | Prospects for tooth regeneration in the 21st century: a perspective. *Microscopy Research and Technique*, **2003**, 60, 469-79 | 2.8 | 97 |
| 221 | Smad4-Shh-Nfic signaling cascade-mediated epithelial-mesenchymal interaction is crucial in regulating tooth root development. *Journal of Bone and Mineral Research*, **2010**, 25, 1167-78 | 6.3 | 96 |
| 220 | Modulation of noncanonical TGF-β signaling prevents cleft palate in Tgfbr2 mutant mice. *Journal of Clinical Investigation*, **2012**, 122, 873-85 | 15.9 | 96 |
| 219 | . *IEEE Transactions on Electron Devices*, **2012**, 59, 12-19 | 2.9 | 94 |
| 218 | Constructing Interfacial Energy Transfer for Photon Up- and Down-Conversion from Lanthanides in a Core-Shell Nanostructure. *Angewandte Chemie - International Edition*, **2016**, 55, 12356-60 | 16.4 | 93 |
| 217 | BMP-SHH signaling network controls epithelial stem cell fate via regulation of its niche in the developing tooth. *Developmental Cell*, **2015**, 33, 125-35 | 10.2 | 91 |
| 216 | Epidemiology, Etiology, and Treatment of Isolated Cleft Palate. *Frontiers in Physiology*, **2016**, 7, 67 | 4.6 | 91 |
| 215 | Effects of surface roughness of Ag thin films on surface-enhanced Raman spectroscopy of graphene: spatial nonlocality and physisorption strain. *Nanoscale*, **2014**, 6, 1311-7 | 7.7 | 90 |
| 214 | A rectification-free piezo-supercapacitor with a polyvinylidene fluoride separator and functionalized carbon cloth electrodes. *Journal of Materials Chemistry A*, **2015**, 3, 14963-14970 | 13 | 88 |
| 213 | Nonstoichiometric acid-base reaction as reliable synthetic route to highly stable CHNHPbI perovskite film. *Nature Communications*, **2016**, 7, 13503 | 17.4 | 87 |
| 212 | Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 μm. *Advanced Materials*, **2020**, 32, e2004412 | 24 | 86 |
| 211 | Remarkably Enhanced Hydrogen Generation of Organolead Halide Perovskites via Piezocatalysis and Photocatalysis. *Advanced Energy Materials*, **2019**, 9, 1901801 | 21.8 | 83 |
| 210 | Stem cell property of postmigratory cranial neural crest cells and their utility in alveolar bone regeneration and tooth development. *Stem Cells*, **2009**, 27, 866-77 | 5.8 | 83 |
| 209 | SMAD4-mediated WNT signaling controls the fate of cranial neural crest cells during tooth morphogenesis. *Development (Cambridge)*, **2011**, 138, 1977-89 | 6.6 | 82 |
| 208 | Preparation and characterization of few-layer MoS2 nanosheets and their good nonlinear optical responses in the PMMA matrix. *Nanoscale*, **2014**, 6, 9713-9 | 7.7 | 76 |

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| 207 | Cell autonomous requirement for TGF-beta signaling during odontoblast differentiation and dentin matrix formation. *Mechanisms of Development*, **2007**, 124, 409-15 | 1.7 | 75 |
| 206 | Atomic Vacancies Control of Pd-Based Catalysts for Enhanced Electrochemical Performance. *Advanced Materials*, **2018**, 30, 1704171 | 24 | 74 |
| 205 | Self-Driven Metal–Semiconductor–Metal WSe2 Photodetector with Asymmetric Contact Geometries. *Advanced Functional Materials*, **2018**, 28, 1802954 | 15.6 | 73 |
| 204 | Optoelectronic Perovskite Synapses for Neuromorphic Computing. *Advanced Functional Materials*, **2020**, 30, 1908901 | 15.6 | 72 |
| 203 | Nanoscale Bipolar and Complementary Resistive Switching Memory Based on Amorphous Carbon. *IEEE Transactions on Electron Devices*, **2011**, 58, 3933-3939 | 2.9 | 72 |
| 202 | Mandible and Tongue Development. *Current Topics in Developmental Biology*, **2015**, 115, 31-58 | 5.3 | 70 |
| 201 | Highly impermeable and transparent graphene as an ultra-thin protection barrier for Ag thin films. *Journal of Materials Chemistry C*, **2013**, 1, 4956 | 7.1 | 68 |
| 200 | Textured CH3NH3PbI3 thin film with enhanced stability for high performance perovskite solar cells. *Nano Energy*, **2017**, 33, 485-496 | 17.1 | 65 |
| 199 | A van der Waals pn heterojunction with organic/inorganic semiconductors. *Applied Physics Letters*, **2015**, 107, 183103 | 3.4 | 62 |
| 198 | Distinctive in-Plane Cleavage Behaviors of Two-Dimensional Layered Materials. *ACS Nano*, **2016**, 10, 8980-8 | 13.7 | 60 |
| 197 | Enhanced Electrocatalytic Hydrogen Evolution Activity in Single-Atom Pt-Decorated VS Nanosheets. *ACS Nano*, **2020**, 14, 5600-5608 | 16.7 | 59 |
| 196 | Enhanced SERS Stability of R6G Molecules with Monolayer Graphene. *Journal of Physical Chemistry C*, **2014**, 118, 11827-11832 | 3.8 | 59 |
| 195 | The FaceBase Consortium: a comprehensive program to facilitate craniofacial research. *Developmental Biology*, **2011**, 355, 175-82 | 3.1 | 59 |
| 194 | Parenchymal cell proliferation and mechanisms for maintenance of granular duct and acinar cell populations in adult male mouse submandibular gland. *The Anatomical Record*, **1993**, 235, 475-85 | | 59 |
| 193 | Transforming growth factor-beta regulates basal transcriptional regulatory machinery to control cell proliferation and differentiation in cranial neural crest-derived osteoprogenitor cells. *Journal of Biological Chemistry*, **2010**, 285, 4975-82 | 5.4 | 56 |
| 192 | TGF-beta mediated FGF10 signaling in cranial neural crest cells controls development of myogenic progenitor cells through tissue-tissue interactions during tongue morphogenesis. *Developmental Biology*, **2010**, 341, 186-95 | 3.1 | 56 |
| 191 | Indirect modulation of Shh signaling by Dlx5 affects the oral-nasal patterning of palate and rescues cleft palate in Msx1-null mice. *Development (Cambridge)*, **2009**, 136, 4225-33 | 6.6 | 56 |
| 190 | Real-Time Observation of the Electrode-Size-Dependent Evolution Dynamics of the Conducting Filaments in a SiO Layer. *ACS Nano*, **2017**, 11, 4097-4104 | 16.7 | 55 |

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| 189 | 2D Materials Based Optoelectronic Memory: Convergence of Electronic Memory and Optical Sensor. *Research*, **2019**, 2019, 9490413 | 7.8 | 53 |
| 188 | Phosphorus Incorporation into Co S Nanocages for Highly Efficient Oxygen Evolution Catalysis. *Small*, **2019**, 15, e1904507 | 11 | 51 |
| 187 | Phase Identification and Strong Second Harmonic Generation in Pure -InSe and Its Alloys. *Nano Letters*, **2019**, 19, 2634-2640 | 11.5 | 50 |
| 186 | Active site engineering of Fe- and Ni-sites for highly efficient electrochemical overall water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 21445-21451 | 13 | 48 |
| 185 | Tuning nonlinear optical absorption properties of WS nanosheets. *Nanoscale*, **2015**, 7, 17771-7 | 7.7 | 46 |
| 184 | An Nfic-hedgehog signaling cascade regulates tooth root development. *Development (Cambridge)*, **2015**, 142, 3374-82 | 6.6 | 45 |
| 183 | Electromigration Studies of Cu/Carbon Nanotube Composite Interconnects Using Blech Structure. *IEEE Electron Device Letters*, **2008**, 29, 1001-1003 | 4.4 | 44 |
| 182 | 3D printing of hydroxyapatite/tricalcium phosphate scaffold with hierarchical porous structure for bone regeneration. *Bio-Design and Manufacturing*, **2020**, 3, 15-29 | 4.7 | 44 |
| 181 | Adsorption of CO molecules on doped graphene: A first-principles study. *AIP Advances*, **2016**, 6, 025317 | 1.5 | 44 |
| 180 | Mass transport mechanism of cu species at the metal/dielectric interfaces with a graphene barrier. *ACS Nano*, **2014**, 8, 12601-11 | 16.7 | 43 |
| 179 | A TGF Smad4-Fgf6 signaling cascade controls myogenic differentiation and myoblast fusion during tongue development. *Development (Cambridge)*, **2012**, 139, 1640-50 | 6.6 | 43 |
| 178 | Monolithic Integration of All-in-One Supercapacitor for 3D Electronics. *Advanced Energy Materials*, **2019**, 9, 1900037 | 21.8 | 43 |
| 177 | A Ternary Dumbbell Structure with Spatially Separated Catalytic Sites for Photocatalytic Overall Water Splitting. *Advanced Science*, **2020**, 7, 1903568 | 13.6 | 42 |
| 176 | Ferroelectric-Gated Two-Dimensional-Material-Based Electron Devices. *Advanced Electronic Materials*, **2017**, 3, 1600400 | 6.4 | 41 |
| 175 | Sox2 and Lef-1 interact with Pitx2 to regulate incisor development and stem cell renewal. *Development (Cambridge)*, **2016**, 143, 4115-4126 | 6.6 | 41 |
| 174 | Nanodiode based on a multiwall CN(x)/carbon nanotube intramolecular junction. *Nanotechnology*, **2005**, 16, 2134-7 | 3.4 | 38 |
| 173 | Valence Engineering Dual-Cation and Boron Doping in Pyrite Selenide for Highly Efficient Oxygen Evolution. *ACS Nano*, **2019**, 13, 11469-11476 | 16.7 | 37 |
| 172 | Cerebral organoid and mouse models reveal a RAB39b-PI3K-mTOR pathway-dependent dysregulation of cortical development leading to macrocephaly/autism phenotypes. *Genes and Development*, **2020**, 34, 580-597 | 12.6 | 37 |

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| 171 | Nano High-Entropy Materials: Synthesis Strategies and Catalytic Applications. *Small Structures*, **2020**, 1, 2000033 | 8.7 | 37 |
| 170 | Modulation doping of transition metal dichalcogenide/oxide heterostructures. *Journal of Materials Chemistry C*, **2017**, 5, 376-381 | 7.1 | 36 |
| 169 | Standards for the Characterization of Endurance in Resistive Switching Devices. *ACS Nano*, **2021**, | 16.7 | 36 |
| 168 | BMP signaling orchestrates a transcriptional network to control the fate of mesenchymal stem cells in mice. *Development (Cambridge)*, **2017**, 144, 2560-2569 | 6.6 | 35 |
| 167 | The FaceBase Consortium: a comprehensive resource for craniofacial researchers. *Development (Cambridge)*, **2016**, 143, 2677-88 | 6.6 | 35 |
| 166 | Noncanonical transforming growth factor (TGF) signaling in cranial neural crest cells causes tongue muscle developmental defects. *Journal of Biological Chemistry*, **2013**, 288, 29760-70 | 5.4 | 31 |
| 165 | Nerve growth factor (NGF) supports tooth morphogenesis in mouse first branchial arch explants. *Developmental Dynamics*, **1999**, 216, 299-310 | 2.9 | 31 |
| 164 | Low-Power Complementary Inverter with Negative Capacitance 2D Semiconductor Transistors. *Advanced Functional Materials*, **2020**, 30, 2003859 | 15.6 | 31 |
| 163 | Lattice oxygen redox chemistry in solid-state electrocatalysts for water oxidation. *Energy and Environmental Science*, **2021**, 14, 4647-4671 | 35.4 | 31 |
| 162 | Disruption of the ERK/MAPK pathway in neural crest cells as a potential cause of Pierre Robin sequence. *Development (Cambridge)*, **2015**, 142, 3734-45 | 6.6 | 30 |
| 161 | Bioinspired in-sensor visual adaptation for accurate perception. *Nature Electronics*, | 28.4 | 30 |
| 160 | Accelerated oxygen evolution kinetics on nickel iron diselenide nanotubes by modulating electronic structure. *Materials Today Energy*, **2019**, 11, 89-96 | 7 | 30 |
| 159 | Intraflagellar transport 88 (IFT88) is crucial for craniofacial development in mice and is a candidate gene for human cleft lip and palate. *Human Molecular Genetics*, **2017**, 26, 860-872 | 5.6 | 29 |
| 158 | Gli1+ Periodontium Stem Cells Are Regulated by Osteocytes and Occlusal Force. *Developmental Cell*, **2020**, 54, 639-654.e6 | 10.2 | 29 |
| 157 | TGF regulates epithelial-mesenchymal interactions through WNT signaling activity to control muscle development in the soft palate. *Development (Cambridge)*, **2014**, 141, 909-17 | 6.6 | 29 |
| 156 | A simple way to CNx/carbon nanotube intramolecular junctions and branches. *Carbon*, **2006**, 44, 687-691 | 10.4 | 29 |
| 155 | Proliferative and structural differences between male and female mouse submandibular glands. *The Anatomical Record*, **1993**, 235, 303-11 | | 29 |
| 154 | Three-dimensional reconstruction of adult female mouse submandibular gland secretory structures. *The Anatomical Record*, **1990**, 226, 489-500 | | 29 |

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| 153 | The WS2 quantum dot: preparation, characterization and its optical limiting effect in polymethylmethacrylate. *Nanotechnology*, **2016**, 27, 414005 | 3.4 | 28 |
| 152 | Improved interfacial H2O supply by surface hydroxyl groups for enhanced alkaline hydrogen evolution. *Journal of Materials Chemistry A*, **2017**, 5, 24091-24097 | 13 | 28 |
| 151 | Integration of comprehensive 3D microCT and signaling analysis reveals differential regulatory mechanisms of craniofacial bone development. *Developmental Biology*, **2015**, 400, 180-90 | 3.1 | 27 |
| 150 | Horizontally aligned carbon nanotube bundles for interconnect application: diameter-dependent contact resistance and mean free path. *Nanotechnology*, **2010**, 21, 235705 | 3.4 | 27 |
| 149 | Carbon Nanotube/Copper Composites for Via Filling and Thermal Management **2007**, | | 27 |
| 148 | Computational Design of Transition Metal Single-Atom Electrocatalysts on PtS for Efficient Nitrogen Reduction. *ACS Applied Materials & Interfaces*, **2020**, 12, 20448-20455 | 9.5 | 27 |
| 147 | Recent Advances in GaN-Based Power HEMT Devices. *Advanced Electronic Materials*, **2021**, 7, 2001045 | 6.4 | 27 |
| 146 | Discovering the forbidden Raman modes at the edges of layered materials. *Science Advances*, **2018**, 4, eaau6252 | 14.3 | 26 |
| 145 | BMP-IHH-mediated interplay between mesenchymal stem cells and osteoclasts supports calvarial bone homeostasis and repair. *Bone Research*, **2018**, 6, 30 | 13.3 | 26 |
| 144 | Phase and Facet Control of Molybdenum Carbide Nanosheet Observed by In Situ TEM. *Small*, **2017**, 13, 1700051 | 11 | 25 |
| 143 | Enhanced Photocatalytic Activity of WS Film by Laser Drilling to Produce Porous WS/WO Heterostructure. *Scientific Reports*, **2017**, 7, 3125 | 4.9 | 25 |
| 142 | Flexible transfer of aligned carbon nanotube films for integration at lower temperature. *Nanotechnology*, **2007**, 18, 355709 | 3.4 | 25 |
| 141 | Topical Fibronectin Improves Wound Healing of Irradiated Skin. *Scientific Reports*, **2017**, 7, 3876 | 4.9 | 24 |
| 140 | Localized Electrons Enhanced Ion Transport for Ultrafast Electrochemical Energy Storage. *Advanced Materials*, **2020**, 32, e1905578 | 24 | 23 |
| 139 | High thermally conductive and electrically insulating 2D boron nitride nanosheet for efficient heat dissipation of high-power transistors. *2D Materials*, **2016**, 3, 041009 | 5.9 | 22 |
| 138 | Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. *ACS Nano*, **2020**, 14, 10018-10026 | 16.7 | 22 |
| 137 | An ultra-long and low junction-resistance Ag transparent electrode by electrospun nanofibers. *RSC Advances*, **2016**, 6, 91641-91648 | 3.7 | 22 |
| 136 | Cranial Suture Regeneration Mitigates Skull and Neurocognitive Defects in Craniosynostosis. *Cell*, **2021**, 184, 243-256.e18 | 56.2 | 22 |

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|---|---|---|---|
| 135 | The Dlx5-FGF10 signaling cascade controls cranial neural crest and myoblast interaction during oropharyngeal patterning and development. *Development (Cambridge)*, **2017**, 144, 4037-4045 | 6.6 | 21 |
| 134 | Electron-shading effect on the horizontal aligned growth of carbon nanotubes. *Applied Physics Letters*, **2009**, 94, 043116 | 3.4 | 21 |
| 133 | Two-Dimensional Antiferroelectricity in Nanostripe-Ordered In_{2}Se_{3}. *Physical Review Letters*, **2020**, 125, 047601 | 7.4 | 21 |
| 132 | Rational design of AlO/2D perovskite heterostructure dielectric for high performance MoS phototransistors. *Nature Communications*, **2020**, 11, 4266 | 17.4 | 21 |
| 131 | Near-Infrared Photoresponse of One-Sided Abrupt MAPbI3/TiO2 Heterojunction through a Tunneling Process. *Advanced Functional Materials*, **2016**, 26, 8545-8554 | 15.6 | 21 |
| 130 | Limpet Tooth-Inspired Painless Microneedles Fabricated by Magnetic Field-Assisted 3D Printing. *Advanced Functional Materials*, **2021**, 31, 2003725 | 15.6 | 21 |
| 129 | Scaling the CBRAM Switching Layer Diameter to 30 nm Improves Cycling Endurance. *IEEE Electron Device Letters*, **2018**, 39, 23-26 | 4.4 | 20 |
| 128 | ALK5-mediated transforming growth factor signaling in neural crest cells controls craniofacial muscle development via tissue-tissue interactions. *Molecular and Cellular Biology*, **2014**, 34, 3120-31 | 4.8 | 20 |
| 127 | Characterization of the fate of midline epithelial cells during the fusion of mandibular prominences in vivo. *Developmental Dynamics*, **1997**, 208, 526-35 | 2.9 | 20 |
| 126 | PDGF-A and PDGFR-alpha regulate tooth formation via autocrine mechanism during mandibular morphogenesis in vitro. *Developmental Dynamics*, **1998**, 213, 500-11 | 2.9 | 20 |
| 125 | Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Low-Power Neuromorphic In-Memory Computing. *Advanced Materials*, **2021**, 33, e2008709 | 24 | 20 |
| 124 | Charge-governed phase manipulation of few-layer tellurium. *Nanoscale*, **2018**, 10, 22263-22269 | 7.7 | 20 |
| 123 | Emerging Group-VI Elemental 2D Materials: Preparations, Properties, and Device Applications. *Small*, **2020**, 16, e2003319 | 11 | 19 |
| 122 | Surface-Modified Ultrathin InSe Nanosheets with Enhanced Stability and Photoluminescence for High-Performance Optoelectronics. *ACS Nano*, **2020**, 14, 11373-11382 | 16.7 | 18 |
| 121 | Regulatory mechanisms of jaw bone and tooth development. *Current Topics in Developmental Biology*, **2019**, 133, 91-118 | 5.3 | 18 |
| 120 | Runx2 Regulates Mouse Tooth Root Development Via Activation of WNT Inhibitor NOTUM. *Journal of Bone and Mineral Research*, **2020**, 35, 2252-2264 | 6.3 | 17 |
| 119 | Carbon nanotube electronics - Materials, devices, circuits, design, modeling, and performance projection **2011**, | | 17 |
| 118 | **2011**, | | 17 |

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| 117 | The TFAP2A-IRF6-GRHL3 genetic pathway is conserved in neurulation. *Human Molecular Genetics*, **2019**, 28, 1726-1737 | 5.6 | 17 |
| 116 | Runx2+ Niche Cells Maintain Incisor Mesenchymal Tissue Homeostasis through IGF Signaling. *Cell Reports*, **2020**, 32, 108007 | 10.6 | 17 |
| 115 | Neuromorphic vision sensors: Principle, progress and perspectives. *Journal of Semiconductors*, **2021** , 42, 013105 | 2.3 | 17 |
| 114 | Review on mechanism of directly fabricating wafer-scale graphene on dielectric substrates by chemical vapor deposition. *Nanotechnology*, **2017**, 28, 284001 | 3.4 | 16 |
| 113 | Identification of candidate downstream targets of TGF signaling during palate development by genome-wide transcript profiling. *Journal of Cellular Biochemistry*, **2013**, 114, 796-807 | 4.7 | 16 |
| 112 | In situ atomic-scale observation of monolayer graphene growth from SiC. *Nano Research*, **2018**, 11, 2809-2820 | 10 | 15 |
| 111 | A Comprehensive Study of Soft Palate Development in Mice. *PLoS ONE*, **2015**, 10, e0145018 | 3.7 | 15 |
| 110 | Infrared light gated MoS field effect transistor. *Optics Express*, **2015**, 23, 31908-14 | 3.3 | 15 |
| 109 | Antimicrobial Bioresorbable Mg-Zn-Ca Alloy for Bone Repair in a Comparison Study with Mg-Zn-Sr Alloy and Pure Mg. *ACS Biomaterials Science and Engineering*, **2020**, 6, 517-538 | 5.5 | 15 |
| 108 | Edge orientations of mechanically exfoliated anisotropic two-dimensional materials. *Journal of the Mechanics and Physics of Solids*, **2018**, 112, 157-168 | 5 | 15 |
| 107 | Investigation of chemical vapour deposition MoS field effect transistors on SiO and ZrO substrates. *Nanotechnology*, **2017**, 28, 164004 | 3.4 | 14 |
| 106 | Doping of two-dimensional MoS2 by high energy ion implantation. *Semiconductor Science and Technology*, **2017**, 32, 124002 | 1.8 | 14 |
| 105 | Sutures Possess Strong Regenerative Capacity for Calvarial Bone Injury. *Stem Cells and Development*, **2016**, 25, 1801-1807 | 4.4 | 14 |
| 104 | High-Performance Logic and Memory Devices Based on a Dual-Gated MoS2 Architecture. *ACS Applied Electronic Materials*, **2020**, 2, 111-119 | 4 | 14 |
| 103 | Interstitial copper-doped edge contact for n-type carrier transport in black phosphorus. *Informa Materi*, **2019**, 1, 242 | 23.1 | 13 |
| 102 | Breaking symmetry in device design for self-driven 2D material based photodetectors. *Nanoscale*, **2020**, 12, 8109-8118 | 7.7 | 13 |
| 101 | High photoelectrochemical activity and stability of Au-WS2/silicon heterojunction photocathode. *Solar Energy Materials and Solar Cells*, **2018**, 174, 300-306 | 6.4 | 13 |
| 100 | Regulation of Mesenchymal Stem to Transit-Amplifying Cell Transition in the Continuously Growing Mouse Incisor. *Cell Reports*, **2018**, 23, 3102-3111 | 10.6 | 13 |

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|---|---|---|---|
| 99 | Local silicon-gate carbon nanotube field effect transistors using silicon-on-insulator technology. *Applied Physics Letters*, **2006**, 89, 023116 | 3.4 | 13 |
| 98 | Low-Field Emission from Iron Oxide-Filled Carbon Nanotube Arrays. *Chinese Physics Letters*, **2005**, 22, 911-914 | 1.8 | 13 |
| 97 | Light-Emitting Memristors for Optoelectronic Artificial Efferent Nerve. *Nano Letters*, **2021**, 21, 6087-6094 | 11.5 | 13 |
| 96 | Ultralow-voltage all-carbon low-dimensional-material flexible transistors integrated by room-temperature photolithography incorporated filtration. *Nanoscale*, **2019**, 11, 15029-15036 | 7.7 | 12 |
| 95 | PRMT1-p53 Pathway Controls Epicardial EMT and Invasion. *Cell Reports*, **2020**, 31, 107739 | 10.6 | 12 |
| 94 | Van der Waals heterostructures with one-dimensional atomic crystals. *Progress in Materials Science*, **2021**, 122, 100856 | 42.2 | 12 |
| 93 | . *IEEE Nanotechnology Magazine*, **2016**, 15, 310-317 | 2.6 | 11 |
| 92 | Robust Photoelectrochemical Oxygen Evolution with N, Fe-CoS Nanorod Arrays. *ACS Applied Materials & Interfaces*, **2019**, 11, 44214-44222 | 9.5 | 11 |
| 91 | Improved multiphoton ultraviolet upconversion photoluminescence in ultrasmall core-shell nanocrystals. *Optics Letters*, **2014**, 39, 6265-8 | 3 | 11 |
| 90 | Metal Substitution Steering Electron Correlations in Pyrochlore Ruthenates for Efficient Acidic Water Oxidation. *ACS Nano*, **2021**, 15, 8537-8548 | 16.7 | 11 |
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