

Joel W Ager

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89
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153
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340
ext. papers

28,912
ext. citations

8
avg, IF

7.02
L-index

#	Paper	IF	Citations
316	Unusual properties of the fundamental band gap of InN. <i>Applied Physics Letters</i> , 2002 , 80, 3967-3969	3.4	1254
315	Above-bandgap voltages from ferroelectric photovoltaic devices. <i>Nature Nanotechnology</i> , 2010 , 5, 143-728.7		1212
314	Three-dimensional nanopillar-array photovoltaics on low-cost and flexible substrates. <i>Nature Materials</i> , 2009 , 8, 648-53	27	909
313	Near-unity photoluminescence quantum yield in MoS ₂ . <i>Science</i> , 2015 , 350, 1065-8	33.3	792
312	Superior radiation resistance of In _{1-x} Ga _x N alloys: Full-solar-spectrum photovoltaic material system. <i>Journal of Applied Physics</i> , 2003 , 94, 6477-6482	2.5	503
311	Small band gap bowing in In _{1-x} Ga _x N alloys. <i>Applied Physics Letters</i> , 2002 , 80, 4741-4743	3.4	498
310	Tailoring Copper Nanocrystals towards C ₂ Products in Electrochemical CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5789-92	16.4	481
309	Photovoltaic effects in BiFeO ₃ . <i>Applied Physics Letters</i> , 2009 , 95, 062909	3.4	429
308	Strain-induced indirect to direct bandgap transition in multilayer WSe ₂ . <i>Nano Letters</i> , 2014 , 14, 4592-7	11.5	415
307	Hydrolysis of Electrolyte Cations Enhances the Electrochemical Reduction of CO over Ag and Cu. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13006-13012	16.4	412
306	Experimental demonstrations of spontaneous, solar-driven photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2015 , 8, 2811-2824	35.4	411
305	The true toughness of human cortical bone measured with realistically short cracks. <i>Nature Materials</i> , 2008 , 7, 672-7	27	380
304	Quantitative measurement of residual biaxial stress by Raman spectroscopy in diamond grown on a Ti alloy by chemical vapor deposition. <i>Physical Review B</i> , 1993 , 48, 2601-2607	3.3	347
303	Temperature dependence of the fundamental band gap of InN. <i>Journal of Applied Physics</i> , 2003 , 94, 4457-4460	3.37	337
302	Efficient photovoltaic current generation at ferroelectric domain walls. <i>Physical Review Letters</i> , 2011 , 107, 126805	7.4	309
301	Solid-state quantum memory using the ³¹ P nuclear spin. <i>Nature</i> , 2008 , 455, 1085-1088	50.4	295
300	Electronic Structure of Monoclinic BiVO ₄ . <i>Chemistry of Materials</i> , 2014 , 26, 5365-5373	9.6	274

299	Spatially resolved Raman studies of diamond films grown by chemical vapor deposition. <i>Physical Review B</i> , 1991 , 43, 6491-6499	3.3	270
298	Age-related changes in the plasticity and toughness of human cortical bone at multiple length scales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14416-14421	11.5	265
297	Nature of room-temperature photoluminescence in ZnO. <i>Applied Physics Letters</i> , 2005 , 86, 1919-11	3.4	237
296	Hardness, elastic modulus, and structure of very hard carbon films produced by cathodic-arc deposition with substrate pulse biasing. <i>Applied Physics Letters</i> , 1996 , 68, 779-781	3.4	231
295	p-Type InP nanopillar photocathodes for efficient solar-driven hydrogen production. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10760-4	16.4	226
294	Transparent Electrodes for Efficient Optoelectronics. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600529	6.4	224
293	Photoactuators and motors based on carbon nanotubes with selective chirality distributions. <i>Nature Communications</i> , 2014 , 5, 2983	17.4	223
292	High Photoluminescence Quantum Yield in Band Gap Tunable Bromide Containing Mixed Halide Perovskites. <i>Nano Letters</i> , 2016 , 16, 800-6	11.5	218
291	Stability of Residual Oxides in Oxide-Derived Copper Catalysts for Electrochemical CO Reduction Investigated with O Labeling. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 551-554	16.4	212
290	Structure and electronic properties of InN and In-rich group III-nitride alloys. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, R83-R99	3	211
289	Effect of Si doping on strain, cracking, and microstructure in GaN thin films grown by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , 2000 , 87, 7745-7752	2.5	211
288	Nature of the fundamental band gap in GaN _x P _{1-x} alloys. <i>Applied Physics Letters</i> , 2000 , 76, 3251-3253	3.4	211
287	Pressure Induced Deep Gap State of Oxygen in GaN. <i>Physical Review Letters</i> , 1997 , 78, 3923-3926	7.4	208
286	Thin-Film Materials for the Protection of Semiconducting Photoelectrodes in Solar-Fuel Generators. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24201-24228	3.8	207
285	Gold-Mediated Exfoliation of Ultralarge Optoelectronically-Perfect Monolayers. <i>Advanced Materials</i> , 2016 , 28, 4053-8	24	206
284	Optimizing CO ₂ Coupling on Oxide-Derived Copper Catalysts for Electrochemical CO ₂ Reduction. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14191-14203	3.8	187
283	Recombination Kinetics and Effects of Superacid Treatment in Sulfur- and Selenium-Based Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2016 , 16, 2786-91	11.5	187
282	Indirect Bandgap and Optical Properties of Monoclinic Bismuth Vanadate. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2969-2974	3.8	176

281	Evidence for p-type doping of InN. <i>Physical Review Letters</i> , 2006 , 96, 125505	7.4	176
280	Raman Spectroscopy and Time-Resolved Photoluminescence of BN and BxCyNz Nanotubes. <i>Nano Letters</i> , 2004 , 4, 647-650	11.5	175
279	Efficient and sustained photoelectrochemical water oxidation by cobalt oxide/silicon photoanodes with nanotextured interfaces. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6191-4	16.4	171
278	Strain-engineered growth of two-dimensional materials. <i>Nature Communications</i> , 2017 , 8, 608	17.4	162
277	Interaction of localized electronic states with the conduction band: band anticrossing in II-VI semiconductor ternaries. <i>Physical Review Letters</i> , 2000 , 85, 1552-5	7.4	162
276	Photocatalytic Stability of Single- and Few-Layer MoS ₂ . <i>ACS Nano</i> , 2015 , 9, 11302-9	16.7	161
275	Fano interference of the Raman phonon in heavily boron-doped diamond films grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 1995 , 66, 616-618	3.4	161
274	Synthetic Insertion of Gold Nanoparticles into Mesoporous Silica. <i>Chemistry of Materials</i> , 2003 , 15, 1242-1248	17.4	157
273	Encapsulation of Metal (Au, Ag, Pt) Nanoparticles into the Mesoporous SBA-15 Structure. <i>Langmuir</i> , 2003 , 19, 4396-4401	4	154
272	Measurement of the toughness of bone: a tutorial with special reference to small animal studies. <i>Bone</i> , 2008 , 43, 798-812	4.7	151
271	Effect of Si doping on the dislocation structure of GaN grown on the A-face of sapphire. <i>Applied Physics Letters</i> , 1996 , 69, 990-992	3.4	151
270	Air-Stable n-Doping of WSe ₂ by Anion Vacancy Formation with Mild Plasma Treatment. <i>ACS Nano</i> , 2016 , 10, 6853-60	16.7	147
269	Osteopontin deficiency increases bone fragility but preserves bone mass. <i>Bone</i> , 2010 , 46, 1564-73	4.7	147
268	Optical properties and electronic structure of InN and In-rich group III-nitride alloys. <i>Journal of Crystal Growth</i> , 2004 , 269, 119-127	1.6	145
267	Life-cycle net energy assessment of large-scale hydrogen production via photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2014 , 7, 3264-3278	35.4	144
266	Exceptionally active iridium evolved from a pseudo-cubic perovskite for oxygen evolution in acid. <i>Nature Communications</i> , 2019 , 10, 572	17.4	142
265	On the effect of X-ray irradiation on the deformation and fracture behavior of human cortical bone. <i>Bone</i> , 2010 , 46, 1475-85	4.7	142
264	Reactive Sputtering of Bismuth Vanadate Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21635-21642	3.8	140

263	Electrical suppression of all nonradiative recombination pathways in monolayer semiconductors. <i>Science</i> , 2019 , 364, 468-471	33.3	139
262	Hardness and fracture toughness of bulk single crystal gallium nitride. <i>Applied Physics Letters</i> , 1996 , 69, 4044-4046	3.4	138
261	Amorphous Si thin film based photocathodes with high photovoltage for efficient hydrogen production. <i>Nano Letters</i> , 2013 , 13, 5615-8	11.5	134
260	Evidence for product-specific active sites on oxide-derived Cu catalysts for electrochemical CO ₂ reduction. <i>Nature Catalysis</i> , 2019 , 2, 86-93	36.5	134
259	Investigating the Role of Copper Oxide in Electrochemical CO Reduction in Real Time. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8574-8584	9.5	132
258	Effect of nitrogen on the band structure of GaInNAs alloys. <i>Journal of Applied Physics</i> , 1999 , 86, 2349-2351	5	130
257	Effects of substrate temperature on chemical structure of amorphous carbon films. <i>Journal of Applied Physics</i> , 1992 , 71, 2243-2248	2.5	127
256	Wide bandgap BaSnO films with room temperature conductivity exceeding 10 S cm. <i>Nature Communications</i> , 2017 , 8, 15167	17.4	126
255	A spongy nickel-organic CO reduction photocatalyst for nearly 100% selective CO production. <i>Science Advances</i> , 2017 , 3, e1700921	14.3	124
254	Trace Levels of Copper in Carbon Materials Show Significant Electrochemical CO ₂ Reduction Activity. <i>ACS Catalysis</i> , 2016 , 6, 202-209	13.1	118
253	High Luminescence Efficiency in MoS ₂ Grown by Chemical Vapor Deposition. <i>ACS Nano</i> , 2016 , 10, 6535-416.7	16.7	115
252	Vitamin D deficiency induces early signs of aging in human bone, increasing the risk of fracture. <i>Science Translational Medicine</i> , 2013 , 5, 193ra88	17.5	114
251	Multiband GaNAsP quaternary alloys. <i>Applied Physics Letters</i> , 2006 , 88, 092110	3.4	112
250	Role of microstructure in the aging-related deterioration of the toughness of human cortical bone. <i>Materials Science and Engineering C</i> , 2006 , 26, 1251-1260	8.3	110
249	CO ₂ Electroreduction with Enhanced Ethylene and Ethanol Selectivity by Nanostructuring Polycrystalline Copper. <i>ChemElectroChem</i> , 2016 , 3, 1012-1019	4.3	110
248	Role of TiO ₂ Surface Passivation on Improving the Performance of p-InP Photocathodes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2308-2313	3.8	109
247	Band Anticrossing in III ^{IV} Alloys. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 223, 75-85	1.3	107
246	Efficient solar-driven electrochemical CO ₂ reduction to hydrocarbons and oxygenates. <i>Energy and Environmental Science</i> , 2017 , 10, 2222-2230	35.4	104

245	Sequential catalysis controls selectivity in electrochemical CO ₂ reduction on Cu. <i>Energy and Environmental Science</i> , 2018 , 11, 2935-2944	35.4	103
244	The effect of aging on crack-growth resistance and toughening mechanisms in human dentin. <i>Biomaterials</i> , 2008 , 29, 1318-28	15.6	103
243	Large melting-point hysteresis of Ge nanocrystals embedded in SiO ₂ . <i>Physical Review Letters</i> , 2006 , 97, 155701	7.4	102
242	Dependence of the fundamental band gap of Al _x Ga _{1-x} N on alloy composition and pressure. <i>Journal of Applied Physics</i> , 1999 , 85, 8505-8507	2.5	100
241	Surface Composition Dependent Ligand Effect in Tuning the Activity of Nickel-Copper Bimetallic Electrocatalysts toward Hydrogen Evolution in Alkaline. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7765-7775	16.4	99
240	p-Type Transparent Conducting Oxide/n-Type Semiconductor Heterojunctions for Efficient and Stable Solar Water Oxidation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9595-603	16.4	98
239	Annealing studies of low-temperature-grown GaAs:Be. <i>Journal of Applied Physics</i> , 1992 , 71, 1699-1707	2.5	98
238	Chemical storage of renewable energy. <i>Science</i> , 2018 , 360, 707-708	33.3	98
237	Coherence of spin qubits in silicon. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, S783-S794	1.8	97
236	On the crystalline structure, stoichiometry and band gap of InN thin films. <i>Applied Physics Letters</i> , 2005 , 86, 071910	3.4	97
235	The Technical and Energetic Challenges of Separating (Photo)Electrochemical Carbon Dioxide Reduction Products. <i>Joule</i> , 2018 , 2, 381-420	27.8	96
234	Electrochemical CO Reduction Builds Solvent Water into Oxygenate Products. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9337-9340	16.4	95
233	Thermal stability of amorphous hard carbon films produced by cathodic arc deposition. <i>Applied Physics Letters</i> , 1997 , 71, 3367-3369	3.4	94
232	Large-area and bright pulsed electroluminescence in monolayer semiconductors. <i>Nature Communications</i> , 2018 , 9, 1229	17.4	93
231	Effect of intrinsic growth stress on the Raman spectra of vacuum-arc-deposited amorphous carbon films. <i>Applied Physics Letters</i> , 1995 , 66, 3444-3446	3.4	93
230	Effects of temperature and gas-liquid mass transfer on the operation of small electrochemical cells for the quantitative evaluation of CO reduction electrocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 26777-26785	3.6	93
229	Universal bandgap bowing in group-III nitride alloys. <i>Solid State Communications</i> , 2003 , 127, 411-414	1.6	92
228	Reduction of band-gap energy in GaNAs and AlGaNAs synthesized by N ⁺ implantation. <i>Applied Physics Letters</i> , 1999 , 75, 1410-1412	3.4	90

227	Aging and fracture of human cortical bone and tooth dentin. <i>Jom</i> , 2008 , 60, 33-38	2.1	85
226	General Thermal Texturization Process of MoS ₂ for Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2016 , 16, 4047-53	11.5	84
225	Mo-doped BiVO ₄ photoanodes synthesized by reactive sputtering. <i>ChemSusChem</i> , 2015 , 8, 1066-71	8.3	82
224	Research advances towards large-scale solar hydrogen production from water. <i>EnergyChem</i> , 2019 , 1, 100014	36.9	82
223	Light emission during fracture of a ZrTiNiCuBe bulk metallic glass. <i>Applied Physics Letters</i> , 1999 , 74, 3809-3811	3.4	82
222	Pressure-dependent photoluminescence study of ZnO nanowires. <i>Applied Physics Letters</i> , 2005 , 86, 1531-1534	3.7	80
221	Effects of polar solvents on the fracture resistance of dentin: role of water hydration. <i>Acta Biomaterialia</i> , 2005 , 1, 31-43	10.8	78
220	Chemical Bath Deposition of p-Type Transparent, Highly Conducting (CuS) _x :(ZnS) _{1-x} Nanocomposite Thin Films and Fabrication of Si Heterojunction Solar Cells. <i>Nano Letters</i> , 2016 , 16, 1925-1932	11.5	77
219	Size-dependent polar ordering in colloidal GeTe nanocrystals. <i>Nano Letters</i> , 2011 , 11, 1147-52	11.5	77
218	Local vibrational mode spectroscopy of nitrogen-hydrogen complex in ZnSe. <i>Applied Physics Letters</i> , 1993 , 63, 2756-2758	3.4	77
217	Tailoring Copper Nanocrystals towards C ₂ Products in Electrochemical CO ₂ Reduction. <i>Angewandte Chemie</i> , 2016 , 128, 5883-5886	3.6	77
216	Robust production of purified H ₂ in a stable, self-regulating, and continuously operating solar fuel generator. <i>Energy and Environmental Science</i> , 2014 , 7, 297-301	35.4	74
215	Reduced size-independent mechanical properties of cortical bone in high-fat diet-induced obesity. <i>Bone</i> , 2010 , 46, 217-25	4.7	72
214	Effect of oxygen on the electronic band structure in ZnO _x Se _{1-x} alloys. <i>Applied Physics Letters</i> , 2003 , 83, 299-301	3.4	70
213	Electron spin coherence of phosphorus donors in silicon: Effect of environmental nuclei. <i>Physical Review B</i> , 2010 , 82,	3.3	69
212	BiVO ₄ thin film photoanodes grown by chemical vapor deposition. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1651-7	3.6	68
211	Changes in cortical bone response to high-fat diet from adolescence to adulthood in mice. <i>Osteoporosis International</i> , 2011 , 22, 2283-93	5.3	68
210	Highly Stable Near-Unity Photoluminescence Yield in Monolayer MoS ₂ by Fluoropolymer Encapsulation and Superacid Treatment. <i>ACS Nano</i> , 2017 , 11, 5179-5185	16.7	64

209	Copper-alloyed ZnS as a p-type transparent conducting material. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2101-2107	1.6	62
208	Hole transport and photoluminescence in Mg-doped InN. <i>Journal of Applied Physics</i> , 2010 , 107, 113712	2.5	62
207	Band gap bowing parameter of In _{1-x} Al _x N. <i>Journal of Applied Physics</i> , 2008 , 104, 123501	2.5	62
206	Local vibrational modes in Mg-doped gallium nitride. <i>Physical Review B</i> , 1994 , 49, 14758-14761	3.3	61
205	Hydrogen-induced platelets in silicon: Infrared absorption and Raman scattering. <i>Physical Review B</i> , 1992 , 45, 13363-13366	3.3	61
204	Characterization of chemical bonding and physical characteristics of diamond-like amorphous carbon and diamond films. <i>Journal of Materials Research</i> , 1992 , 7, 404-410	2.5	61
203	Particle- and photoinduced conductivity in type-IIa diamonds. <i>Journal of Applied Physics</i> , 1993 , 74, 1086-1095	2.9	60
202	Structure sensitivity of vibrational spectra of mesoporous silica SBA-15 and Pt/SBA-15. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17386-90	3.4	59
201	Si photocathode with Ag-supported dendritic Cu catalyst for CO ₂ reduction. <i>Energy and Environmental Science</i> , 2019 , 12, 1068-1077	35.4	58
200	Pressure dependence of the fundamental band-gap energy of CdSe. <i>Applied Physics Letters</i> , 2004 , 84, 67-69	3.4	58
199	Interface characterization of chemically vapor deposited diamond on titanium and Ti-6Al-4V. <i>Journal of Applied Physics</i> , 1993 , 74, 7542-7550	2.5	58
198	Optical detection and ionization of donors in specific electronic and nuclear spin States. <i>Physical Review Letters</i> , 2006 , 97, 227401	7.4	57
197	Current status of research and development of III-N-IV semiconductor alloys. <i>Semiconductor Science and Technology</i> , 2002 , 17, 741-745	1.8	57
196	Al ₂ O ₃ Surface Complexation for Photocatalytic Organic Transformations. <i>Journal of the American Chemical Society</i> , 2017 , 139, 269-276	16.4	55
195	Opportunities to improve the net energy performance of photoelectrochemical water-splitting technology. <i>Energy and Environmental Science</i> , 2016 , 9, 803-819	35.4	54
194	Net primary energy balance of a solar-driven photoelectrochemical water-splitting device. <i>Energy and Environmental Science</i> , 2013 , 6, 2380	35.4	54
193	Demonstration of a III-Nitride/Silicon Tandem Solar Cell. <i>Applied Physics Express</i> , 2009 , 2, 122202	2.4	54
192	Effect of charged dislocation scattering on electrical and electrothermal transport in n-type InN. <i>Physical Review B</i> , 2011 , 84,	3.3	53

191	Mg-doped InN and InGaN [Photoluminescence, capacitance-voltage and thermopower measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 873-877	1.3	53
190	Locus of pairing interaction in YBa ₂ Cu ₃ O ₇ by site-selective oxygen isotope shift: 18O in CuO ₂ plane layers. <i>Physical Review Letters</i> , 1993 , 70, 81-84	7.4	53
189	Quantum-coupled radial-breathing oscillations in double-walled carbon nanotubes. <i>Nature Communications</i> , 2013 , 4, 1375	17.4	52
188	A direct thin-film path towards low-cost large-area III-V photovoltaics. <i>Scientific Reports</i> , 2013 , 3, 2275	4.9	52
187	Mechanism of stress relaxation in Ge nanocrystals embedded in SiO ₂ . <i>Applied Physics Letters</i> , 2005 , 86, 063107	3.4	51
186	Electron emission from films of carbon nanotubes and ta-C coated nanotubes. <i>Applied Physics Letters</i> , 1999 , 75, 2680-2682	3.4	50
185	. <i>IEEE Transactions on Magnetics</i> , 1991 , 27, 5160-5162	2	50
184	Heat treatment of cathodic arc deposited amorphous hard carbon films. <i>Thin Solid Films</i> , 1997 , 308-309, 186-190	2.2	49
183	Temperature dependent mobility in single-crystal and chemical vapor-deposited diamond. <i>Journal of Applied Physics</i> , 1993 , 73, 2888-2894	2.5	48
182	Synthetic WSe monolayers with high photoluminescence quantum yield. <i>Science Advances</i> , 2019 , 5, eaau4728	11.9	48
181	Fatigue threshold R-curves for predicting reliability of ceramics under cyclic loading. <i>Acta Materialia</i> , 2005 , 53, 2595-2605	8.4	46
180	The degree of bone mineralization is maintained with single intravenous bisphosphonates in aged estrogen-deficient rats and is a strong predictor of bone strength. <i>Bone</i> , 2007 , 41, 804-12	4.7	44
179	Annealing of nonhydrogenated amorphous carbon films prepared by filtered cathodic arc deposition. <i>Journal of Applied Physics</i> , 2000 , 88, 2395-2399	2.5	44
178	Raman and resistivity investigations of carbon overcoats of thin-film media: Correlations with tribological properties. <i>Journal of Applied Physics</i> , 1991 , 69, 5748-5750	2.5	44
177	Pressure-Temperature Phase Diagram of Vanadium Dioxide. <i>Nano Letters</i> , 2017 , 17, 2512-2516	11.5	43
176	Mapping materials properties with Raman spectroscopy utilizing a 2-D detector. <i>Applied Optics</i> , 1990 , 29, 4969-80	1.7	43
175	Structural and electronic properties of amorphous and polycrystalline In ₂ Se ₃ films. <i>Journal of Applied Physics</i> , 2003 , 94, 2390-2397	2.5	42
174	Solution-Processed Transparent Self-Powered p-CuS-ZnS/n-ZnO UV Photodiode. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700381	2.5	42

173	Mg doped InN and confirmation of free holes in InN. <i>Applied Physics Letters</i> , 2011 , 98, 042104	3.4	41
172	. <i>IEEE Transactions on Magnetics</i> , 1993 , 29, 259-263	2	40
171	Undoped and Ni-Doped CoO _x Surface Modification of Porous BiVO ₄ Photoelectrodes for Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23449-23457	3.8	40
170	Synthesis of InN _x P _{1-x} thin films by N ion implantation. <i>Applied Physics Letters</i> , 2001 , 78, 1077-1079	3.4	39
169	On the increasing fragility of human teeth with age: a deep-UV resonance Raman study. <i>Journal of Bone and Mineral Research</i> , 2006 , 21, 1879-87	6.3	38
168	Direct growth of single-crystalline III-V semiconductors on amorphous substrates. <i>Nature Communications</i> , 2016 , 7, 10502	17.4	37
167	Formation of diluted III ^V nitride thin films by N ion implantation. <i>Journal of Applied Physics</i> , 2001 , 90, 2227-2234	2.5	37
166	Sequential Cascade Electrocatalytic Conversion of Carbon Dioxide to C ₂ Coupled Products. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4551-4559	6.1	36
165	Control of defect concentrations within a semiconductor through adsorption. <i>Physical Review Letters</i> , 2006 , 97, 055503	7.4	36
164	Metal-Oxygen Hybridization Determined Activity in Spinel-Based Oxygen Evolution Catalysts: A Case Study of ZnFe ₂ -Cr _x O ₄ . <i>Chemistry of Materials</i> , 2018 , 30, 6839-6848	9.6	36
163	Stable, freestanding Ge nanocrystals. <i>Journal of Applied Physics</i> , 2005 , 97, 124316	2.5	35
162	Band-gap bowing effects in BxGa _{1-x} As alloys. <i>Journal of Applied Physics</i> , 2003 , 93, 2696-2699	2.5	35
161	P-Type Transparent Cu-Alloyed ZnS Deposited at Room Temperature. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500396	6.4	35
160	Quantifying van der Waals Interactions in Layered Transition Metal Dichalcogenides from Pressure-Enhanced Valence Band Splitting. <i>Nano Letters</i> , 2017 , 17, 4982-4988	11.5	34
159	p-Type InP Nanopillar Photocathodes for Efficient Solar-Driven Hydrogen Production. <i>Angewandte Chemie</i> , 2012 , 124, 10918-10922	3.6	34
158	Stability of Residual Oxides in Oxide-Derived Copper Catalysts for Electrochemical CO ₂ Reduction Investigated with ¹⁸ O Labeling. <i>Angewandte Chemie</i> , 2018 , 130, 560-563	3.6	34
157	High-Purity, Isotopically Enriched Bulk Silicon. <i>Journal of the Electrochemical Society</i> , 2005 , 152, G448	3.9	33
156	An Ultraviolet-Raman Spectroscopic Investigation of Magnesium Chloride-Ethanol Solids with a 0.47 to 6 Molar Ratio of C ₂ H ₅ OH to MgCl ₂ . <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2946-2949	3.4	33

155	Direct observation of the donor nuclear spin in a near-gap bound exciton transition: P31 in highly enriched S28ia). <i>Journal of Applied Physics</i> , 2007 , 101, 081724	2.5	32
154	Diamond synthesis by microwave plasma chemical vapor deposition using graphite as the carbon source. <i>Applied Physics Letters</i> , 1991 , 59, 2386-2388	3.4	32
153	Nonepitaxial Thin-Film InP for Scalable and Efficient Photocathodes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2177-82	6.4	31
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