

# Hee-je Kim

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4128997/hee-je-kim-publications-by-citations.pdf>

**Version:** 2023-06-07

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

319  
papers

6,700  
citations

41  
h-index

57  
g-index

347  
ext. papers

8,498  
ext. citations

4.4  
avg, IF

6.74  
L-index

#	Paper	IF	Citations
319	A Novel Grid Synchronization PLL Method Based on Adaptive Low-Pass Notch Filter for Grid-Connected PCS. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 292-301	8.9	158
318	Towards a Smarter Battery Management System for Electric Vehicle Applications: A Critical Review of Lithium-Ion Battery State of Charge Estimation. <i>Energies</i> , <b>2019</b> , 12, 446	3.1	110
317	Wearable superhigh energy density supercapacitors using a hierarchical ternary metal selenide composite of CoNiSe <sub>2</sub> microspheres decorated with CoFe <sub>2</sub> Se <sub>4</sub> nanorods. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7439-7448	13	107
316	Carbon nanotube/metal-sulfide composite flexible electrodes for high-performance quantum dot-sensitized solar cells and supercapacitors. <i>Scientific Reports</i> , <b>2017</b> , 7, 46519	4.9	99
315	Improved photovoltaic performance of CdSe/CdS/PbS quantum dot sensitized ZnO nanorod array solar cell. <i>Journal of Power Sources</i> , <b>2014</b> , 248, 439-446	8.9	97
314	Co <sub>9</sub> S <sub>8</sub> -Ni <sub>3</sub> S <sub>2</sub> /CuMn <sub>2</sub> O <sub>4</sub> -NiMn <sub>2</sub> O <sub>4</sub> and MnFe <sub>2</sub> O <sub>4</sub> -ZnFe <sub>2</sub> O <sub>4</sub> /graphene as binder-free cathode and anode materials for high energy density supercapacitors. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122640	14.7	84
313	Sputter deposition and surface treatment of TiO <sub>2</sub> films for dye-sensitized solar cells using reactive RF plasma. <i>Thin Solid Films</i> , <b>2007</b> , 515, 4996-4999	2.2	82
312	Banyan Root Structured Mg-Doped ZnO Photoanode Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 2600-2607	3.8	80
311	Improved performance of quantum dot-sensitized solar cells adopting a highly efficient cobalt sulfide/nickel sulfide composite thin film counter electrode. <i>Journal of Power Sources</i> , <b>2014</b> , 268, 163-170	8.9	76
310	Recent progress of advanced energy storage materials for flexible and wearable supercapacitor: From design and development to applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 27, 101035	7.8	75
309	Asymmetric supercapacitor based on carbon nanofibers as the anode and two-dimensional copper cobalt oxide nanosheets as the cathode. <i>Chemical Engineering Journal</i> , <b>2019</b> , 366, 390-403	14.7	75
308	Improved photovoltaic performance and stability of quantum dot sensitized solar cells using Mn-ZnSe shell structure with enhanced light absorption and recombination control. <i>Nanoscale</i> , <b>2015</b> , 7, 12552-63	7.7	72
307	Highly efficient solution processed nanorice structured NiS counter electrode for quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , <b>2014</b> , 127, 427-432	6.7	72
306	Recent progress in quantum dot sensitized solar cells: an inclusive review of photoanode, sensitizer, electrolyte, and the counter electrode. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 4911-4933	7.1	71
305	Phase transition kinetics and surface binding states of methylammonium lead iodide perovskite. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 7284-92	3.6	64
304	Implementation of Fault Ride-Through Techniques of Grid-Connected Inverter for Distributed Energy Resources With Adaptive Low-Pass Notch PLL. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 2859-2871	7.2	63
303	Highly effective nickel sulfide counter electrode catalyst prepared by optimal hydrothermal treatment for quantum dot-sensitized solar cells. <i>Journal of Power Sources</i> , <b>2015</b> , 275, 547-556	8.9	63

302	Cobalt sulfide thin film as an efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2014</b> , 133, 174-179	6.7	63
301	A highly efficient PV system using a series connection of DCDC converter output with a photovoltaic panel. <i>Renewable Energy</i> , <b>2009</b> , 34, 2432-2436	8.1	63
300	Analysis of TiO <sub>2</sub> thickness effect on characteristic of a dye-sensitized solar cell by using electrochemical impedance spectroscopy. <i>Current Applied Physics</i> , <b>2010</b> , 10, S422-S424	2.6	60
299	Reagents assisted ZnCo <sub>2</sub> O <sub>4</sub> nanomaterial for supercapacitor application. <i>Electrochimica Acta</i> , <b>2020</b> , 330, 135261	6.7	58
298	A strategy to improve the energy conversion efficiency and stability of quantum dot-sensitized solar cells using manganese-doped cadmium sulfide quantum dots. <i>Dalton Transactions</i> , <b>2015</b> , 44, 630-843	4.3	57
297	Surface reinforced platinum counter electrode for quantum dots sensitized solar cells. <i>Electrochimica Acta</i> , <b>2013</b> , 103, 231-236	6.7	56
296	Selective integration of hierarchical nanostructured energy materials: an effective approach to boost the energy storage performance of flexible hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6374-6386	13	56
295	Ultrahigh surface area biomass derived 3D hierarchical porous carbon nanosheet electrodes for high energy density supercapacitors. <i>Carbon</i> , <b>2021</b> , 174, 463-474	10.4	56
294	Simple fabrication of ZnO/Pt/chitosan electrode for enzymatic glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 827-833	8.5	55
293	A Comprehensive Review of Li-Ion Battery Materials and Their Recycling Techniques. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1161	2.6	54
292	ZnO nanorods decorated with metal sulfides as stable and efficient counter-electrode materials for high-efficiency quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 8161-8171	13	52
291	Enhanced photovoltaic performance of quantum dot-sensitized solar cells with a progressive reduction of recombination using Cu-doped CdS quantum dots. <i>Applied Surface Science</i> , <b>2017</b> , 396, 582-589	6.7	50
290	Interplay between Iodide and Tin Vacancies in CsSnI <sub>3</sub> Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 16447-16453	3.8	49
289	Solution processed low-cost and highly electrocatalytic composite NiS/PbS nanostructures as a novel counter-electrode material for high-performance quantum dot-sensitized solar cells with improved stability. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 12514-12528	7.1	47
288	Facile chemical bath deposition of CuS nano peas like structure as a high efficient counter electrode for quantum-dot sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 739, 20-27	4.1	47
287	Enhanced electrochemical performance of nanoplate nickel cobaltite (NiCoO) supercapacitor applications.. <i>RSC Advances</i> , <b>2019</b> , 9, 1115-1122	3.7	46
286	A review on porous carbon electrode material derived from hypercross-linked polymers for supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101831	7.8	46
285	Novel high-temperature supercapacitor combined dye sensitized solar cell from a sulfated Eyclodextrin/PVP/MnCO <sub>3</sub> composite. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10225-10232	13	45

284	NiMoO@NiWO honeycombs as a high performance electrode material for supercapacitor applications. <i>Dalton Transactions</i> , <b>2018</b> , 47, 9057-9063	4.3	45
283	Facile fabrication of highly efficient carbon nanotube thin film replacing CuS counter electrode with enhanced photovoltaic performance in quantum dot-sensitized solar cells. <i>Journal of Power Sources</i> , <b>2016</b> , 311, 111-120	8.9	44
282	Hydrothermal synthesis of MoS <sub>2</sub> and WS <sub>2</sub> nanoparticles for high-performance supercapacitor applications. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 12357-12360	3.6	44
281	A Comprehensive Review of DCDC Converter Topologies and Modulation Strategies with Recent Advances in Solar Photovoltaic Systems. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 31	2.6	44
280	CNT@rGO@MoCuSe Composite as an Efficient Counter Electrode for Quantum Dot-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10036-10042	9.5	42
279	La-doped ZnO nanoflower as photocatalyst for methylene blue dye degradation under UV irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 2367-2378	2.1	42
278	Hybrid Reduced Graphene Oxide/Manganese Diselenide Cubes: A New Electrode Material for Supercapacitors. <i>Energy Technology</i> , <b>2017</b> , 5, 1953-1962	3.5	40
277	Formation of anatase TiO <sub>2</sub> nanoparticles by simple polymer gel technique and their properties. <i>Powder Technology</i> , <b>2011</b> , 205, 36-41	5.2	40
276	Facile preparation of a highly efficient NiZnO-NiO nanoflower composite grown on Ni foam as an advanced battery-type electrode material for high-performance electrochemical supercapacitors. <i>Dalton Transactions</i> , <b>2020</b> , 49, 3622-3629	4.3	39
275	Enhanced electrochemical capacitance of polyimidazole coated covellite CuS dispersed CNT composite materials for application in supercapacitors. <i>Dalton Transactions</i> , <b>2016</b> , 45, 12362-71	4.3	39
274	High performance of TiO <sub>2</sub> /CdS quantum dot sensitized solar cells with a Cu <sub>2</sub> ZnS passivation layer. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 1914-1917	3.6	38
273	Faster dye-adsorption of dye-sensitized solar cells by applying an electric field. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 4120-4123	6.7	38
272	Improving the performance of quantum dot sensitized solar cells through CdNiS quantum dots with reduced recombination and enhanced electron lifetime. <i>Dalton Transactions</i> , <b>2016</b> , 45, 8447-57	4.3	38
271	Flower-like ZnO@MnCo <sub>2</sub> O <sub>4</sub> nanosheet structures on nickel foam as novel electrode material for high-performance supercapacitors. <i>RSC Advances</i> , <b>2016</b> , 6, 102961-102967	3.7	37
270	A novel electrode for supercapacitors: efficient PVP-assisted synthesis of NiS nanostructures grown on Ni foam for energy storage. <i>Dalton Transactions</i> , <b>2020</b> , 49, 4050-4059	4.3	36
269	Synthesis, structure stability and magnetic properties of nanocrystalline Ag <sub>3</sub> Ni alloy. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	36
268	The fabrication of efficiency-improved W-series interconnect type of module by balancing the performance of single cells. <i>Solar Energy</i> , <b>2009</b> , 83, 2217-2222	6.8	36
267	Achieving copper sulfide leaf like nanostructure electrode for high performance supercapacitor and quantum-dot sensitized solar cells. <i>Applied Surface Science</i> , <b>2018</b> , 435, 666-675	6.7	36

266	Facile one-step synthesis of a composite CuO/Co <sub>3</sub> O <sub>4</sub> electrode material on Ni foam for flexible supercapacitor applications. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 5493-5497	3.6	35
265	V <sub>2</sub> O <sub>5</sub> nanorod electrode material for enhanced electrochemical properties by a facile hydrothermal method for supercapacitor applications. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 11862-11868 <sup>3.6</sup>	3.6	35
264	Preparation and electrochemical performances of NiS with PEDOT:PSS chrysanthemum petal like nanostructure for high performance supercapacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 254, 269-279	6.7	34
263	Enhanced photovoltaic performance and morphological control of the PbS counter electrode grown on functionalized self-assembled nanocrystals for quantum-dot sensitized solar cells via cost-effective chemical bath deposition. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10195-10206	7.1	34
262	Wearable super-high specific performance supercapacitors using a honeycomb with folded silk-like composite of NiCoO nanoplates decorated with NiMoO honeycombs on nickel foam. <i>Dalton Transactions</i> , <b>2018</b> , 47, 15545-15554	4.3	34
261	Optimal-Temperature-Based Highly Efficient NiS Counter Electrode for Quantum-Dot-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 4281-4286	2.3	33
260	Synthesis of nanostructured metal sulfides via a hydrothermal method and their use as an electrode material for supercapacitors. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 19183-19192	3.6	33
259	Preparation and electrochemical performance of NiCo <sub>2</sub> O <sub>4</sub> @NiCo <sub>2</sub> O <sub>4</sub> composite nanoplates for high performance supercapacitor applications. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 19971-19978	3.6	33
258	Electrolyte-imprinted graphene oxide-chitosan chelate with copper crosslinked composite electrodes for intense cyclic-stable, flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1380-1386	13	32
257	Recombination control in high-performance quantum dot-sensitized solar cells with a novel TiO <sub>2</sub> /ZnS/CdS/ZnS heterostructure. <i>Dalton Transactions</i> , <b>2016</b> , 45, 12914-23	4.3	32
256	Nanocrystalline LiMn <sub>2</sub> O <sub>4</sub> thin film cathode material prepared by polymer spray pyrolysis method for Li-ion battery. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 489, 674-677	5.7	32
255	Hierarchical nanostructured MnCo <sub>2</sub> O <sub>4</sub> @NiCo <sub>2</sub> O <sub>4</sub> composites as innovative electrodes for supercapacitor applications. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 17190-17194	3.6	32
254	Nickel doped cobalt sulfide as a high performance counter electrode for dye-sensitized solar cells. <i>Applied Surface Science</i> , <b>2015</b> , 328, 78-85	6.7	31
253	Facile synthesis of hierarchical flower-like NiMoO <sub>4</sub> -CoMoO <sub>4</sub> nanosheet arrays on nickel foam as an efficient electrode for high rate hybrid supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 30, 101550	7.8	31
252	Facile synthesis of a NiO/NiS hybrid and its use as an efficient electrode material for supercapacitor applications. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 5309-5313	3.6	31
251	Cost-effective and morphology controllable PVP based highly efficient CuS counter electrodes for high-efficiency quantum dot-sensitized solar cells. <i>Dalton Transactions</i> , <b>2015</b> , 44, 11340-51	4.3	31
250	Facile synthesis of ZnWO <sub>4</sub> @WS <sub>2</sub> cauliflower-like structures for supercapacitors with enhanced electrochemical performance. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 841, 86-93	4.1	30
249	One-step hydrothermal synthesis of CuS@MnS on Ni foam for high performance supercapacitor electrode material. <i>Electrochimica Acta</i> , <b>2019</b> , 305, 467-473	6.7	30

248	Method for fabricating the compact layer in dye-sensitized solar cells by titanium sputter deposition and acid-treatments. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 340-343	6.4	30
247	Highly efficient and stable quantum dot-sensitized solar cells based on a Mn-doped CuS counter electrode. <i>RSC Advances</i> , <b>2015</b> , 5, 2963-2967	3.7	29
246	Hydrothermal synthesis and pseudocapacitive properties of morphology-tuned nickel sulfide (NiS) nanostructures. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2733-2742	3.6	29
245	Drastic photocatalytic degradation of methylene blue dye by neodymium doped zirconium oxide as photocatalyst under visible light irradiation. <i>Optik</i> , <b>2016</b> , 127, 10288-10296	2.5	29
244	Co-electrodeposition of NiCu(OH) <sub>2</sub> @Ni-Cu-Se hierarchical nanoparticle structure for supercapacitor application with enhanced performance. <i>Applied Surface Science</i> , <b>2020</b> , 506, 145015	6.7	29
243	Binder-free honeycomb-like FeMoO <sub>4</sub> nanosheet arrays with dual properties of both battery-type and pseudocapacitive-type performances for supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 27, 101055	7.8	29
242	A Real-Time Simulink Interfaced Fast-Charging Methodology of Lithium-Ion Batteries under Temperature Feedback with Fuzzy Logic Control. <i>Energies</i> , <b>2018</b> , 11, 1122	3.1	29
241	Enhanced photovoltaic performance and time varied controllable growth of a CuS nanoplatelet structured thin film and its application as an efficient counter electrode for quantum dot-sensitized solar cells via a cost-effective chemical bath deposition. <i>Dalton Transactions</i> , <b>2015</b> , 44, 19330-43	4.3	28
240	Time Varied Morphology Controllable Fabrication of NiS Nanosheets Structured Thin Film and its Application as a Counter Electrode for QDSSC. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 11419-11429	3.8	27
239	A strategy to enhance the efficiency of dye-sensitized solar cells by the highly efficient TiO <sub>2</sub> /ZnS photoanode. <i>Dalton Transactions</i> , <b>2015</b> , 44, 2447-55	4.3	27
238	Facile synthesis of novel and highly efficient CoNi <sub>2</sub> S <sub>4</sub> -Ni(OH) <sub>2</sub> nanosheet arrays as pseudocapacitive-type electrode material for high-performance electrochemical supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 31, 101623	7.8	27
237	Mechanochemical assisted synthesis of heteroatoms inherited highly porous carbon from biomass for electrochemical capacitor and oxygen reduction reaction electrocatalysis. <i>Electrochimica Acta</i> , <b>2019</b> , 317, 1-9	6.7	26
236	Hierarchical NiCo <sub>2</sub> S <sub>4</sub> nanostructure as highly efficient electrode material for high-performance supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 31, 101619	7.8	26
235	Tailoring the morphology followed by the electrochemical performance of NiMn-LDH nanosheet arrays through controlled Co-doping for high-energy and power asymmetric supercapacitors. <i>Dalton Transactions</i> , <b>2017</b> , 46, 12876-12883	4.3	26
234	Influence of annealing temperature in nitrogen doped porous carbon balls derived from hypercross-linked polymer of anthracene for supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 28, 101196	7.8	26
233	Fabrication of a snail shell-like structured MnO <sub>2</sub> @CoNiO <sub>2</sub> composite electrode for high performance supercapacitors. <i>RSC Advances</i> , <b>2017</b> , 7, 12301-12308	3.7	25
232	Novel electrode material derived from porous polymeric organic framework of phloroglucinol and terephthaldehyde for symmetric supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 28, 101283	7.8	25
231	A Novel Supercapacitor/Lithium-Ion Hybrid Energy System with a Fuzzy Logic-Controlled Fast Charging and Intelligent Energy Management System. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 63	2.6	25

230	The effect of manganese in a CdS/PbS colloidal quantum dot sensitized TiO <sub>2</sub> solar cell to enhance its efficiency. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 4805-4813	3.6	25
229	Optimal ablation of fluorine-doped tin oxide (FTO) thin film layers adopting a simple pulsed Nd:YAG laser with TEM <sub>00</sub> mode. <i>Optics and Lasers in Engineering</i> , <b>2009</b> , 47, 558-562	4.6	25
228	Optimized Design of Bi-Directional Dual Active Bridge Converter for Low-Voltage Battery Charger. <i>Journal of Power Electronics</i> , <b>2014</b> , 14, 468-477	0.9	25
227	Facile synthesis of pristine FeS <sub>2</sub> microflowers and hybrid rGO-FeS <sub>2</sub> microsphere electrode materials for high performance symmetric capacitors. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 71, 191-200	6.3	25
226	Influence of Mn <sup>+2</sup> incorporation in CdSe quantum dots for high performance of CdS/CdSe quantum dot sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2016</b> , 315, 34-41	4.7	24
225	Facile synthesis of hierarchical ZnMn <sub>2</sub> O <sub>4</sub> @ZnFe <sub>2</sub> O <sub>4</sub> microspheres on nickel foam for high-performance supercapacitor applications. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2964-2969	3.6	24
224	Improved performance of CdS/CdSe quantum dot-sensitized solar cells using Mn-doped PbS quantum dots as a catalyst in the counter electrode. <i>Electrochimica Acta</i> , <b>2014</b> , 117, 92-98	6.7	24
223	One-step facile hydrothermal synthesis of Fe <sub>2</sub> O <sub>3</sub> @LiCoO <sub>2</sub> composite as excellent supercapacitor electrode materials. <i>Applied Surface Science</i> , <b>2018</b> , 435, 462-467	6.7	24
222	Stability Improvement of Interleaved Voltage Source Inverters Employing Coupled Inductors for Grid-Connected Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2015</b> , 62, 6014-6023	8.9	23
221	Preparation and characterization of CoWO <sub>4</sub> /CoMn <sub>2</sub> O <sub>4</sub> nanoflakes composites on Ni foam for electrochemical supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2020</b> , 30, 101483	7.8	23
220	One-pot hydrothermal synthesis of tungsten diselenide/reduced graphene oxide composite as advanced electrode materials for supercapacitors. <i>Materials Letters</i> , <b>2018</b> , 223, 57-60	3.3	23
219	Investigation on novel CuS/NiS composite counter electrode for hindering charge recombination in quantum dot sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 777, 123-132	4.1	23
218	Stabilization of cryptomelane $\gamma$ -MnO <sub>2</sub> nanowires tunnels widths for enhanced electrochemical energy storage. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 1679-1688	6.7	23
217	Surface modification on TiO <sub>2</sub> nanoparticles in CdS/CdSe Quantum Dot-sensitized Solar Cell. <i>Electrochimica Acta</i> , <b>2014</b> , 118, 118-123	6.7	23
216	A hydrothermal reaction combined with a post anion-exchange reaction of hierarchically nanostructured NiCo <sub>2</sub> S <sub>4</sub> for high-performance QDSSCs and supercapacitors. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 10037-10047	3.6	23
215	A MoNiO <sub>4</sub> flower-like electrode material for enhanced electrochemical properties via a facile chemical bath deposition method for supercapacitor applications. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 522-529	3.6	23
214	Highly efficient copper-cobalt sulfide nano-reeds array with simplistic fabrication strategy for battery-type supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101988	7.8	23
213	A Real-Time Bi-Adaptive Controller-Based Energy Management System for Battery/Supercapacitor Hybrid Electric Vehicles. <i>Energies</i> , <b>2019</b> , 12, 4662	3.1	23

212	Facile synthesis of morphology dependent CuS nanoparticle thin film as a highly efficient counter electrode for quantum dot-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 791, 95-102	4.1	22
211	A cabbage leaf like nanostructure of a NiS@ZnS composite on Ni foam with excellent electrochemical performance for supercapacitors. <i>Dalton Transactions</i> , <b>2019</b> , 48, 578-586	4.3	22
210	The synthesis and characterization of lead sulfide with cube-like structure as a counter electrode in the presence of urea using a hydrothermal method. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 7379-7388	3.6	22
209	Highly catalytic nickel sulfide counter electrode for dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2015</b> , 306, 41-46	4.7	22
208	Ammonia treated ZnO nanoflowers based CdS/CdSe quantum dot sensitized solar cell. <i>Electrochimica Acta</i> , <b>2015</b> , 151, 531-536	6.7	22
207	Performance Evaluation of Photovoltaic Solar System with Different Cooling Methods and a Bi-Reflector PV System (BRPVS): An Experimental Study and Comparative Analysis. <i>Energies</i> , <b>2017</b> , 10, 826	3.1	22
206	Review of Multilevel Voltage Source Inverter Topologies and Analysis of Harmonics Distortions in FC-MLI. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1329	2.6	22
205	Microflower-like nickel sulfide-lead sulfide hierarchical composites as binder-free electrodes for high-performance supercapacitors. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100925	7.8	21
204	Reduced recombination with an optimized barrier layer on TiO <sub>2</sub> in PbS/CdS core shell quantum dot sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 3423-3431	3.6	21
203	Enhancing the photovoltaic performance and stability of QDSSCs using surface reinforced Pt nanostructures with controllable morphology and superior electrocatalysis via cost-effective chemical bath deposition. <i>Dalton Transactions</i> , <b>2016</b> , 45, 3450-63	4.3	21
202	Dice-Like Nanostructure of a CuS@PbS Composite for High-Performance Supercapacitor Electrode Applications. <i>Energies</i> , <b>2018</b> , 11, 1624	3.1	21
201	Electrochemical properties of TiO <sub>2</sub> encapsulated ZnO nanorod aggregates dye sensitized solar cells. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 537, 159-164	5.7	21
200	Selective Growth of ZnO@PbS Nanostructures on Various Conductive Substrates for Asymmetric Flexible Hybrid Supercapacitor with Enhanced Performance. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 1900873	6.8	21
199	Improving the efficiency of quantum-dot-sensitized solar cells by optimizing the growth time of the CuS counter electrode. <i>Applied Surface Science</i> , <b>2017</b> , 416, 446-453	6.7	20
198	Low-temperature easy-processed carbon nanotube contact for high-performance metal- and hole-transporting layer-free perovskite solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2017</b> , 332, 265-272	4.7	20
197	One-step synthesis of solution processed time-dependent highly efficient and stable PbS counter electrodes for quantum dot-sensitized solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 107522-107532	3.7	20
196	Effective immobilization of glucose oxidase on chitosan submicron particles from gladius of <i>Todarodes pacificus</i> for glucose sensing. <i>Bioelectrochemistry</i> , <b>2015</b> , 104, 44-50	5.6	20
195	Magnesium doped ZnO nanoparticles embedded ZnO nanorod hybrid electrodes for dye sensitized solar cells. <i>Journal of Sol-Gel Science and Technology</i> , <b>2012</b> , 62, 453-459	2.3	20



194	Novel porous carbon material derived from hypercross-linked polymer of p-xylene for supercapacitors electrode. <i>Materials Letters</i> , <b>2020</b> , 263, 127222	3.3	20
193	Densely packed zinc sulfide nanoparticles on TiO <sub>2</sub> for hindering electron recombination in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 9176-9186	3.6	19
192	Self-assembled 3D hierarchical MnCO/NiFe layered double hydroxides as a superior electrocatalysts for the oxygen evolution reactions. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 566, 224-233	9.3	19
191	Effect of Time on a Hierarchical Corn Skeleton-Like Composite of CoO@ZnO as Capacitive Electrode Material for High Specific Performance Supercapacitors. <i>Energies</i> , <b>2018</b> , 11, 3285	3.1	19
190	Superior one-pot synthesis of a doped graphene oxide electrode for a high power density supercapacitor. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 11093-11101	3.6	19
189	Chitin and chitosan based biopolymer derived electrode materials for supercapacitor applications: A critical review. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 104, 155-155	6.3	19
188	Enhanced light harvesting and charge recombination control with TiO <sub>2</sub> /PbCdS/CdS based quantum dot-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 788, 131-136	4.1	18
187	Effect of the cobalt and zinc ratio on the preparation of zeolitic imidazole frameworks (ZIFs): synthesis, characterization and supercapacitor applications. <i>Dalton Transactions</i> , <b>2019</b> , 48, 14808-14819	4.3	18
186	Enhance the performance of quantum dot-sensitized solar cell by manganese-doped ZnS films as a passivation layer. <i>Organic Electronics</i> , <b>2015</b> , 26, 200-207	3.5	18
185	The effect of TiO <sub>2</sub> nanoflowers as a compact layer for CdS quantum-dot sensitized solar cells with improved performance. <i>Dalton Transactions</i> , <b>2015</b> , 44, 12852-62	4.3	18
184	Inhibition of Redox Behaviors in Hierarchically Structured Manganese Cobalt Phosphate Supercapacitor Performance by Surface Trivalent Cations. <i>ACS Omega</i> , <b>2018</b> , 3, 1718-1725	3.9	18
183	Well-dispersed NiS nanoparticles grown on a functionalized CoS nanosphere surface as a high performance counter electrode for quantum dot-sensitized solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 29003-29019	3.7	18
182	Novel composite electrode material derived from hypercross-linked polymer of pyrene and polyaniline for symmetric supercapacitor. <i>Materials Letters</i> , <b>2019</b> , 257, 126732	3.3	18
181	Electrochemical growth of NiS nanoparticle thin film as counter electrode for quantum dot-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2017</b> , 332, 200-207	4.7	18
180	The analysis of the change in the performance and impedance of dye-sensitized solar cell according to the dye-adsorption time. <i>Current Applied Physics</i> , <b>2010</b> , 10, S418-S421	2.6	18
179	Mn <sup>3+</sup> Active Surface Site Enriched Manganese Phosphate Nano-polyhedrons for Enhanced Bifunctional Oxygen Electrocatalyst. <i>ChemCatChem</i> , <b>2020</b> , 12, 2348-2355	5.2	18
178	Improved photovoltaic performance of quantum dot-sensitized solar cells using multi-layered semiconductors with the effect of a ZnSe passivation layer. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 5942-5949	2.6	17
177	Reagent induced morphological changes in NiCo <sub>2</sub> O <sub>4</sub> electrode material for flexible supercapacitor. <i>Materials Letters</i> , <b>2019</b> , 248, 218-221	3.3	17

- 176 Enhanced solar to electrical energy conversion of titania nanoparticles and nanotubes-based combined photoanodes for dye-sensitized solar cells. *Materials Letters*, **2019**, 243, 180-182 3.3 17
- 175 Exploring the effect of manganese in lead sulfide quantum dot sensitized solar cell to enhance the photovoltaic performance. *RSC Advances*, **2015**, 5, 33136-33145 3.7 17
- 174 Stacked Cu<sub>1.8</sub>S nanoplatelets as counter electrode for quantum dot-sensitized solar cell. *RSC Advances*, **2015**, 5, 100560-100567 3.7 17
- 173 Cation intercalated one-dimensional manganese hydroxide nanorods and hierarchical mesoporous activated carbon nanosheets with ultrahigh capacitance retention asymmetric supercapacitors. *Journal of Colloid and Interface Science*, **2020**, 566, 485-494 9.3 17
- 172 Study on characteristics of CdS quantum dot-sensitized solar cells prepared by successive ionic layer adsorption and reaction with different adsorption times. *Electronic Materials Letters*, **2014**, 10, 621-626 2.9 17
- 171 Improved long-term durability of a parallel-type dye-sensitized solar cell module using a platinum metal grid fabricated by direct current magnetron sputtering with heat treatment. *Journal of Power Sources*, **2013**, 222, 333-339 8.9 17
- 170 The blocking effect of charge recombination by sputtered and acid-treated ZnO thin film in dye-sensitized solar cells. *Journal of Photochemistry and Photobiology A: Chemistry*, **2012**, 248, 50-54 4.7 17
- 169 An Online Data-Driven Model Identification and Adaptive State of Charge Estimation Approach for Lithium-ion-Batteries Using the Lagrange Multiplier Method. *Energies*, **2018**, 11, 2940 3.1 17
- 168 Influence of solvents in the preparation of cobalt sulfide for supercapacitors. *Royal Society Open Science*, **2017**, 4, 170427 3.3 16
- 167 Facile preparation of hierarchical MgCo<sub>2</sub>O<sub>4</sub>/MgCo<sub>2</sub>O<sub>4</sub> nanochain array composites on Ni foam as advanced electrode materials for supercapacitors. *New Journal of Chemistry*, **2020**, 44, 4266-4275 3.6 16
- 166 Facile synthesis of hierarchical agglomerated cauliflower-like ZnWO<sub>4</sub>@NiO nanostructures as an efficient electrode material for high-performance supercapacitor applications. *Materials Letters*, **2020**, 268, 127594 3.3 16
- 165 One-Pot Hydrothermal Synthesis of Novel Cu-MnS with PVP Cabbage-Like Nanostructures for High-Performance Supercapacitors. *Energies*, **2018**, 11, 1590 3.1 16
- 164 Transition metal chalcogenide based MnSe heterostructured with NiCo<sub>2</sub>O<sub>4</sub> as a new high performance electrode material for capacitive energy storage. *New Journal of Chemistry*, **2019**, 43, 12630-12640 3.6 16
- 163 Zinc stannate nanoflower (Zn<sub>2</sub>SnO<sub>4</sub>) photoanodes for efficient dye sensitized solar cells. *Materials Science in Semiconductor Processing*, **2014**, 25, 52-58 4.3 16
- 162 A Blended SPS-ESPS Control DAB-IBDC Converter for a Standalone Solar Power System. *Energies*, **2017**, 10, 1431 3.1 16
- 161 Microstructure analysis of the ferromagnetic Ag/Ni system synthesized by pulsed electrodeposition. *Applied Surface Science*, **2012**, 258, 3126-3132 6.7 16
- 160 Facile synthesis of nanoparticles anchored on honeycomb-like MnCo<sub>2</sub>S<sub>4</sub> nanostructures as a binder-free electroactive material for supercapacitors. *Journal of Energy Storage*, **2020**, 27, 101159 7.8 16
- 159 Boosting the energy density of highly efficient flexible hybrid supercapacitors via selective integration of hierarchical nanostructured energy materials. *Electrochimica Acta*, **2020**, 364, 137318 6.7 16

158	Electrochemically grown MnO <sub>2</sub> nanowires for supercapacitor and electrocatalysis applications. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 17864-17870	3.6	16
157	Online Remaining Useful Life Prediction for Lithium-Ion Batteries Using Partial Discharge Data Features. <i>Energies</i> , <b>2019</b> , 12, 4366	3.1	16
156	Metal-free multiporous carbon for electrochemical energy storage and electrocatalysis applications. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 11653-11659	3.6	15
155	Fabrication of Hierarchical NiMoO <sub>4</sub> /NiMoO <sub>4</sub> Nanoflowers on Highly Conductive Flexible Nickel Foam Substrate as a Capacitive Electrode Material for Supercapacitors with Enhanced Electrochemical Performance. <i>Energies</i> , <b>2019</b> , 12, 1143	3.1	15
154	Highly efficient yttrium-doped ZnO nanorods for quantum dot-sensitized solar cells. <i>Applied Surface Science</i> , <b>2016</b> , 365, 136-142	6.7	15
153	Analysis of current loss from a series-parallel combination of dye-sensitized solar cells using electrochemical impedance spectroscopy. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2012</b> , 10, 568-574	2.6	15
152	Visible light enhanced TiO <sub>2</sub> thin film bilayer dye sensitized solar cells. <i>Thin Solid Films</i> , <b>2010</b> , 519, 894-899	2.2	15
151	Binder-free hierarchical core-shell-like CoMn <sub>2</sub> O <sub>4</sub> @MnS nanowire arrays on nickel foam as a battery-type electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , <b>2021</b> , 36, 102377	7.8	15
150	Hematite microdisks as an alternative anode material for lithium-ion batteries. <i>Materials Letters</i> , <b>2019</b> , 247, 163-166	3.3	14
149	Dynamic Modeling and Robust Controllers Design for Doubly Fed Induction Generator-Based Wind Turbines under Unbalanced Grid Fault Conditions. <i>Energies</i> , <b>2019</b> , 12, 454	3.1	14
148	Construction of novel nanocomposite ZnO@CoFe <sub>2</sub> O <sub>4</sub> microspheres grown on nickel foam for high performance electrochemical supercapacitors. <i>Analytical Methods</i> , <b>2018</b> , 10, 223-229	3.2	14
147	Facile synthesis of flexible and binder-free dandelion flower-like CuNiO <sub>2</sub> nanostructures as advanced electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100914	7.8	13
146	Multiscale honeycomb-structured activated carbon obtained from nitrogen-containing mandarin peel: high-performance supercapacitors with significant cycling stability. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 3486-3492	3.6	13
145	Selenium vacancies enriched the performance of supercapacitors with excellent cycling stability via a simple chemical bath deposition method. <i>Dalton Transactions</i> , <b>2019</b> , 48, 8254-8263	4.3	13
144	Open atmospheric processed perovskite solar cells using dopant-free, highly hydrophobic hole-transporting materials: Influence of thiophene and selenophene spacers on charge transport and recombination properties. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 199, 66-74	6.4	13
143	Open Atmosphere-Processed Stable Perovskite Solar Cells Using Molecular Engineered, Dopant-Free, Highly Hydrophobic Polymeric Hole-Transporting Materials: Influence of Thiophene and Alkyl Chain on Power Conversion Efficiency. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 8560-8568	3.8	13
142	Enhanced performance of branched TiO <sub>2</sub> nanorod based Mn-doped CdS and Mn-doped CdSe quantum dot-sensitized solar cell. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 163104	2.5	13
141	Cobalt sulfide counter electrode using hydrothermal method for quantum dot-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 750, 19-26	4.1	13

140	Solution-processed morphology-controllable nanosphere structured highly efficient and stable nickel sulfide counter electrodes for dye- and quantum dot-sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 9575-9585	3.6	13
139	Simultaneous electrochemical deposition of an e-rGO/ECd/MnO <sub>2</sub> ternary composite for a self-powered supercapacitor based caffeine sensor. <i>Analytical Methods</i> , <b>2016</b> , 8, 7937-7943	3.2	13
138	One-pot synthesis of copper oxide/cobalt oxide core/shell nanocactus-like heterostructures as binder-free electrode materials for high-rate hybrid supercapacitors. <i>Materials Today Energy</i> , <b>2019</b> , 14, 100358	7	13
137	Phase Transformation and Evolution of Localized Surface Plasmon Resonance in Cu <sub>2</sub> S Thin Films Deposited at 60 °C. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 25440-25446	3.8	13
136	CdS/CdSe quantum dot-sensitized solar cells based on ZnO nanoparticle/nanorod composite electrodes. <i>Electronic Materials Letters</i> , <b>2014</b> , 10, 1137-1142	2.9	13
135	Preparation of TiO <sub>2</sub> paste using poly(vinylpyrrolidone) for dye sensitized solar cells. <i>Thin Solid Films</i> , <b>2012</b> , 520, 7018-7021	2.2	13
134	The photo-characteristics of (Bi <sub>1-x</sub> Zn <sub>x</sub> )S quantum dot complex and multilayer structure for the application to the dye-sensitized solar cell. <i>Current Applied Physics</i> , <b>2011</b> , 11, S154-S157	2.6	13
133	One-step synthesis and electrochemical performance of a PbMoO <sub>4</sub> /CdMoO <sub>4</sub> composite as an electrode material for high-performance supercapacitor applications. <i>Dalton Transactions</i> , <b>2019</b> , 48, 10652-10660	4.3	12
132	LLC Resonant Converter for LEV (Light Electric Vehicle) Fast Chargers. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 362	2.6	12
131	Facile synthesis of FeS <sub>2</sub> /PVP composite as high-performance electrodes for supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 28, 101216	7.8	12
130	Phase transformations of novel Cu <sub>x</sub> S nanostructures as highly efficient counter electrodes for stable and reproducible quantum dot-sensitized solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 101185-101197	3.7	12
129	Layer by layer approach to enhance capacitance using metal sulfides for supercapacitor applications. <i>Materials Letters</i> , <b>2018</b> , 231, 64-67	3.3	12
128	Acute pancreatitis induced by methimazole treatment in a 51-year-old korean man: a case report. <i>Journal of Korean Medical Science</i> , <b>2014</b> , 29, 1170-3	4.7	12
127	Synthesis of self-light-scattering wrinkle structured ZnO photoanode by sol-gel method for dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 116, 811-816	2.6	12
126	Analysis on the Light-Scattering Effect in Dye-Sensitized Solar Cell according to the TiO <sub>2</sub> Structural Differences. <i>International Journal of Photoenergy</i> , <b>2012</b> , 2012, 1-8	2.1	12
125	A simple dye-sensitized solar cell sealing technique using a CO <sub>2</sub> laser beam excited by 60Hz AC discharges. <i>Optics and Laser Technology</i> , <b>2010</b> , 42, 934-940	4.2	12
124	Control of Output and Circulating Current of Modular Multilevel Converter Using a Sliding Mode Approach. <i>Energies</i> , <b>2019</b> , 12, 4084	3.1	12
123	Nickel self-doped iron oxide/manganese carbonate hierarchical 2D/3D structures for electrochemical energy storage. <i>Electrochimica Acta</i> , <b>2019</b> , 297, 77-86	6.7	12

122	Porous shiitake mushroom carbon composite with NiCo <sub>2</sub> O <sub>4</sub> nanorod electrochemical characteristics for efficient supercapacitor applications. <i>Ionics</i> , <b>2020</b> , 26, 345-354	2.7	12
121	Digital Soft Start Implementation for Minimizing Start Up Transients in High Power DAB-IBDC Converter. <i>Energies</i> , <b>2018</b> , 11, 956	3.1	11
120	Highly efficient ZnO porous nanostructure for CdS/CdSe quantum dot sensitized solar cell. <i>Thin Solid Films</i> , <b>2013</b> , 548, 636-640	2.2	11
119	A unique core-shell structured ZnO/NiO heterojunction to improve the performance of supercapacitors produced using a chemical bath deposition approach. <i>Dalton Transactions</i> , <b>2020</b> , 49, 14432-14444	4.3	10
118	A Novel Off-Grid Optimal Hybrid Energy System for Rural Electrification of Tanzania Using a Closed Loop Cooled Solar System. <i>Energies</i> , <b>2018</b> , 11, 905	3.1	10
117	Development of Novel and Ultra-High-Performance Supercapacitor Based on a Four Layered Unique Structure. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 121	2.6	10
116	Controlled growth of a nanoplatelet-structured copper sulfide thin film as a highly efficient counter electrode for quantum dot-sensitized solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 45809-45818	3.7	10
115	The influence of in situ deposition techniques on PbS seeded CdS/CdSe for enhancing the photovoltaic performance of quantum dot sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 773, 27-38	4.1	10
114	Exploration of Ni-X (O, S, Se) for high performance supercapacitor with long-term stability via solution phase synthesis. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 81, 294-302	6.3	10
113	Low-cost solution processed nano millet like structure Co <sub>2</sub> S film superior to Pt as counter electrode for quantum dot sensitized solar cells. <i>Electronic Materials Letters</i> , <b>2015</b> , 11, 485-493	2.9	9
112	A facile synthesis of a NiMoO@metal-coated graphene-ink nanosheet structure towards the high energy density of a battery type-hybrid supercapacitor. <i>Dalton Transactions</i> , <b>2020</b> , 49, 9762-9772	4.3	9
111	Effect of Sensors Sensitivity on Lithium-Ion Battery Modeled Parameters and State of Charge: A Comparative Study. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 709	2.6	9
110	Morphology-dependent binder-free CuNiO <sub>2</sub> electrode material with excellent electrochemical performances for supercapacitors. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 101037	7.8	9
109	Cu-doped ZnO nanoporous film for improved performance of CdS/CdSe quantum dot-sensitized solar cells. <i>Thin Solid Films</i> , <b>2014</b> , 570, 310-314	2.2	9
108	Optimal series-parallel connection method of dye-sensitized solar cell for Pt thin film deposition using a radio frequency sputter system. <i>Thin Solid Films</i> , <b>2008</b> , 517, 963-966	2.2	9
107	Novel 13X Zeolite/PANI electrocatalyst for hydrogen and oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 28337-28349	6.7	9
106	Multilayer photoactive nanocolloidal PPy:PSS as a novel substitute for Pt free counter electrode in DSSC. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	9
105	Semiactive Hybrid Energy Management System: A Solution for Electric Wheelchairs. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 345	2.6	8

104	Facile synthesis of unique diamond-like structured CdMn <sub>2</sub> O <sub>4</sub> @CdMn <sub>2</sub> O <sub>4</sub> composite material for high performance supercapacitors. <i>Materials Letters</i> , <b>2018</b> , 210, 143-147	3.3	8
103	Hydroxyl solvents prompted interwoven morphological deposition of iron sulfide nanoparticles as an effective counter electrode for quantum dot sensitized Solar cell. <i>Electrochimica Acta</i> , <b>2016</b> , 204, 255-262	6.7	8
102	Growth mechanisms and origin of localized surface plasmon resonance coupled exciton effects in Cu <sub>2</sub> S thin films. <i>RSC Advances</i> , <b>2016</b> , 6, 19034-19040	3.7	8
101	Autonomous Control Strategy of DC Microgrid for Islanding Mode Using Power Line Communication. <i>Energies</i> , <b>2018</b> , 11, 924	3.1	8
100	Dye-Sensitized Solar Cells: History, Components, Configuration, and Working Principle <b>2019</b> , 1-16		8
99	One-step facile synthesis of dense cloud-like tiny bundled nanoparticles of CuS nanostructures as an efficient electrode material for high-performance supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 27, 101148	7.8	8
98	Design of Super Twisting Sliding Mode Controller for a Three-Phase Grid-connected Photovoltaic System under Normal and Abnormal Conditions. <i>Energies</i> , <b>2020</b> , 13, 3773	3.1	8
97	Facile Fabrication of MnCoO/NiO Flower-Like Nanostructure Composites with Improved Energy Storage Capacity for High-Performance Supercapacitors. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	8
96	4T Analog MOS Control-High Voltage High Frequency (HVHF) Plasma Switching Power Supply for Water Purification in Industrial Applications. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 245	2.6	8
95	Sulfur and nitrogen-doped graphene quantum dots/PANI nanocomposites for supercapacitors. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 4101-4110	3.6	8
94	In situ synthesis of CuS nano platelets on nano wall networks of Ni foam and its application as an efficient counter electrode for quantum dot sensitized solar cells. <i>Organic Electronics</i> , <b>2017</b> , 42, 115-122 <sup>3.5</sup>		7
93	Facilely Synthesized NiCo <sub>2</sub> O <sub>4</sub> /NiCo <sub>2</sub> O <sub>4</sub> Nanoflake Arrays Supported on Nickel Foam by a Hydrothermal Method and Their Excellent Performance for High-Rate Supercapacitance. <i>Energies</i> , <b>2019</b> , 12, 1308	3.1	7
92	Facile preparation of nanoflake MnNi <sub>2</sub> O <sub>4</sub> /PbS nanoparticle composites on Ni foam as advanced electrode materials for supercapacitors. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 14157-14162	3.6	7
91	High Frequency Transformer Parasitic Capacitance Minimization for Photovoltaic (PV) High-Frequency Link-Based Medium Voltage (MV) Inverter. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 142	2.6	7
90	Study on the Fabrication of Paint-Type Si Quantum Dot-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 10MB07	1.4	7
89	Enhancement in the photovoltaic performance of a dye-sensitized solar cell by an optimized ZnO barrier layer. <i>Physica Scripta</i> , <b>2010</b> , T139, 014029	2.6	7
88	A nano-porous TiO <sub>2</sub> thin film coating method for dye sensitized solar cells (DSSCs) using electrostatic spraying with dye solution. <i>Journal of Electrostatics</i> , <b>2010</b> , 68, 205-211	1.7	7
87	Ni foam conductive substrate supported interwoven ZnCo <sub>2</sub> S <sub>4</sub> nanowires with highly enhanced performances for supercapacitors. <i>Journal of Energy Storage</i> , <b>2021</b> , 44, 103417	7.8	7

86	CoCu2O4 nanoflowers architecture as an electrode material for battery type supercapacitor with improved electrochemical performance. <i>Nano Structures Nano Objects</i> , <b>2020</b> , 24, 100618	5.6	7
85	The one-step electrodeposition of nickel phosphide for enhanced supercapacitive performance using 3-mercaptopropionic acid. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 7690-7697	3.6	7
84	An innovative catalyst design as an efficient electro catalyst and its applications in quantum-dot sensitized solar cells and the oxygen reduction reaction for fuel cells. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 2098-2111	3.6	6
83	Efficient electron transfer and reduced recombination with Nd:YAG laser scribing for high-efficiency quantum dot-sensitized solar cells. <i>Optics and Laser Technology</i> , <b>2017</b> , 94, 290-295	4.2	6
82	Solution processed metal-doped NiS/PEDOT:PSS composite thin films as an efficient electrode for quantum-dot sensitized solar cells. <i>Materials Research Bulletin</i> , <b>2018</b> , 102, 369-378	5.1	6
81	The enhancement of dye adsorption in dye-sensitized solar module by an electrical adsorption method. <i>Thin Solid Films</i> , <b>2014</b> , 554, 118-121	2.2	6
80	Zinc stannate nanoneedles for CdS/CdSe quantum dot sensitized solar cells. <i>Materials Letters</i> , <b>2013</b> , 111, 28-31	3.3	6
79	Electrochemical impedance analysis on the additional layers for the enhancement on the performance of dye-sensitized solar cell. <i>Thin Solid Films</i> , <b>2014</b> , 554, 122-126	2.2	6
78	Enhanced performance of Al <sub>2</sub> O <sub>3</sub> coated ZnO nanorods in CdS/CdSe quantum dot-sensitized solar cell. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 143, 1404-1409	4.4	6
77	<b>2013</b> ,		6
76	The optimization of TiO <sub>2</sub> compact layer in dye-sensitized solar cell by the analysis of performance and internal impedance. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2011</b> , 8, 634-636		6
75	Titanium oxide prepared by polymer gel assisted combustion method for dye-sensitized solar cell. <i>Current Applied Physics</i> , <b>2011</b> , 11, S127-S130	2.6	6
74	Sterilization of Escherichia coli Based on Nd: YAG Resonator with a Pulsed Xenon Flashlamp. <i>Journal of Electrical Engineering and Technology</i> , <b>2011</b> , 6, 275-279	1.4	6
73	A core-shell structure of cobalt sulfide//G-ink towards high energy density in asymmetric hybrid supercapacitors. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 4848-4858	5.8	6
72	Effect of CuBr <sub>2</sub> salt treatment on the performance of nanocolloidal PPy:PSS multilayer thin film counter electrodes of dye-sensitized solar cells. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133,	2.9	6
71	Crafting nanoflower-built MnCo <sub>2</sub> S <sub>4</sub> anchored to Ni foam as a prominent energy conversion and energy storage electrode for high-performance supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2021</b> , 43, 103155	7.8	6
70	Study on the efficient PV/TE characteristics of the self-assembled thin films based on bismuth telluride/cadmium telluride. <i>RSC Advances</i> , <b>2017</b> , 7, 6735-6742	3.7	5
69	Facile synthesis of highly efficient V <sub>2</sub> O <sub>5</sub> @NiCo <sub>2</sub> O <sub>4</sub> as battery-type electrode material for high-performance electrochemical supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 13519-13524	2.1	5

68	Fabrication of mesoporous TiO <sub>2</sub> double layer using dicarboxylic acid in dye-sensitized solar cell. <i>Electronic Materials Letters</i> , <b>2014</b> , 10, 229-234	2.9	5
67	The effects of electrolyte additives on the cell performances of CdS/CdSe quantum dot sensitized solar cells. <i>Korean Journal of Chemical Engineering</i> , <b>2013</b> , 30, 2088-2092	2.8	5
66	The development of a high repetitive and high power Nd:YAG laser by using a zero-current switching resonant converter. <i>Optics and Laser Technology</i> , <b>1998</b> , 30, 199-203	4.2	5
65	Enhanced Photocurrent from CdS Sensitized ZnO Nanorods. <i>Journal of Electrical Engineering and Technology</i> , <b>2012</b> , 7, 965-970	1.4	5
64	Effect of Acetic Acid in TiCl <sub>4</sub> Post-Treatment on Nanoporous TiO <sub>2</sub> Electrode in Dye-Sensitized Solar Cell. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 09MA05	1.4	5
63	Design of a Building-Integrated Photovoltaic System with a Novel Bi-Reflector PV System (BRPVS) and Optimal Control Mechanism: An Experimental Study. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 119	2.6	5
62	Implementation of a Smart Power Conditioning System for Energy Storage System with a Novel Seamless Transfer Strategy. <i>Energies</i> , <b>2018</b> , 11, 1108	3.1	4
61	The effect of TiO <sub>2</sub> compact layer in ZnO nanorod based CdS/CdSe quantum-dot sensitized solar cell. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 1839-1843	1.6	4
60	Improved performance of CdS and dye co-sensitized solar cell using a TiO <sub>2</sub> sol-gel solution. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 1726-1731	1.6	4
59	Morphology controllable time-dependent CoS nanoparticle thin films as efficient counter electrode for quantum dot-sensitized solar cells. <i>Chemical Physics Letters</i> , <b>2017</b> , 687, 238-243	2.5	4
58	Evaluation of electromagnetic interference environment of the instrumentation and control systems in nuclear power units. <i>Nuclear Engineering and Design</i> , <b>2015</b> , 285, 15-22	1.8	4
57	Proposal of optimal process parameters for polymethylmethacryl plastic adhesion using a pulsed Nd:YAG laser. <i>Optical Engineering</i> , <b>2009</b> , 48, 084301	1.1	4
56	A Study on a Solar Simulator for Dye Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , <b>2012</b> , 2012, 1-11	2.1	4
55	Nanostructured Ni-doped CuS thin film as an efficient counter electrode material for high-performance quantum dot-sensitized solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 975-982	2.1	4
54	Control of Transformerless Inverter-Based Two-Stage Grid-Connected Photovoltaic System Using Adaptive-PI and Adaptive Sliding Mode Controllers. <i>Energies</i> , <b>2021</b> , 14, 2546	3.1	4
53	Dual active bridge converter for Energy Storage System in DC microgrid <b>2016</b> ,		4
52	A facile one-step hydrothermal approach for the synthesis of a CuMoO <sub>4</sub> /MoS <sub>2</sub> composite as a high performance pseudocapacitive material for supercapacitor applications. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 15605-15613	3.6	4
51	Interplay between porous texture and surface-active sites for efficient oxygen reduction reactions in N-inherited carbon. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 10911-10917	3.6	4



50	Chemical bath deposition of NiCo <sub>2</sub> S <sub>4</sub> nanostructures supported on a conductive substrate for efficient quantum-dot-sensitized solar cells and methanol oxidation. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 18824-18836	3.6	4
49	Implementation of a Single-Phase SST for the Interface between a 13.2 kV MVAC Network and a 750 V Bipolar DC Distribution. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 62	2.6	4
48	Control Strategy Based on Arm-Level Control for Output and Circulating Current of MMC in Stationary Reference Frame. <i>Energies</i> , <b>2021</b> , 14, 4160	3.1	4
47	An advanced nano-sticks & flake-type architecture of manganese-cobalt oxide as an effective electrode material for supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2021</b> , 40, 102702	7.8	4
46	Novel porous carbon electrode derived from hypercross-linked polymer of poly(divinylbenzene-co-vinyl benzyl chloride) for supercapacitor applications. <i>Journal of Energy Storage</i> , <b>2021</b> , 43, 103287	7.8	4
45	Polyaniline/3X zeolite composite-supported platinum electrocatalysts for direct methanol fuel cell applications. <i>Polymer International</i> , <b>2019</b> , 68, 929-935	3.3	3
44	A DAB Converter with Common-Point-Connected Winding Transformers Suitable for a Single-Phase 5-Level SST System. <i>Energies</i> , <b>2018</b> , 11, 928	3.1	3
43	Photo-electrochemical properties of variously-sized titanium dioxide nanoparticle-based dye-sensitized solar cells. <i>Materials Science in Semiconductor Processing</i> , <b>2014</b> , 26, 354-359	4.3	3
42	A boost PFC rectifier with a passive lossless snubber circuit using coupled inductors methods <b>2012</b> ,		3
41	Simplified power supply for long pulse CO <sub>2</sub> laser using zero cross switching technique. <i>Optics and Laser Technology</i> , <b>2001</b> , 33, 161-165	4.2	3
40	Template and binder free 1D cobalt nickel hydrogen phosphate electrode materials for supercapacitor application. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 106, 328-328	6.3	3
39	Improvement on the Long-Term Stability of Dye-Sensitized Solar Module by Structural Alternation. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 10NE21	1.4	3
38	Improved light-harvesting and suppressed charge recombination by introduction of a nanograin-like SnO interlayer for efficient CdS quantum dot sensitized solar cells.. <i>RSC Advances</i> , <b>2019</b> , 9, 38047-38054	3.7	3
37	One-pot facile synthesis of nanorice-like structured CuS@WS <sub>2</sub> as an advanced electroactive material for high-performance supercapacitors. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	2
36	ZnS/SiO <sub>2</sub> Passivation Layer for High-Performance of TiO <sub>2</sub> /CuInS <sub>2</sub> Quantum Dot Sensitized Solar Cells. <i>Energies</i> , <b>2018</b> , 11, 1931	3.1	2
35	Development of an algorithm to discriminate between valid and false alarms in a loose-parts monitoring system. <i>Nuclear Engineering and Design</i> , <b>2014</b> , 278, 1-6	1.8	2
34	A simple method for modeling dye-sensitized solar cells. <i>Thin Solid Films</i> , <b>2014</b> , 554, 114-117	2.2	2
33	Performance enhancement of quantum dot-sensitized solar cells based on polymer nano-composite catalyst. <i>Electrochimica Acta</i> , <b>2017</b> , 249, 337-342	6.7	2

32	Improved performance of dye-sensitized solar cells by employing acid treated Ti layer on the nanocrystalline TiO <sub>2</sub> . <i>Thin Solid Films</i> , <b>2014</b> , 554, 204-208	2.2	2
31	Phase-locked loop algorithm using FFT concept for grid synchronization under unbalanced voltage sags <b>2013</b> ,		2
30	Electrical sterilization of Escherichia coli by electrostatic atomization with a photo-chemical catalyst. <i>Journal of Electrostatics</i> , <b>2011</b> , 69, 328-332	1.7	2
29	Improvement on the Long-Term Stability of Dye-Sensitized Solar Module by Structural Alternation. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 10NE21	1.4	2
28	Frequency-Tracking Algorithm Based on SOGI-FLL for Wireless Power Transfer System to Operate ZPA Region. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1303	2.6	2
27	Soft Start-Up Control Strategy for Dual Active Bridge Converter with a Supercapacitor. <i>Energies</i> , <b>2020</b> , 13, 4083	3.1	2
26	Hydrothermal synthesis of layered CoS@WS <sub>2</sub> nanocomposite as a potential electrode for high-performance supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 16290-16298	2.1	2
25	Design of Supercapacitor for Electric and Hybrid Vehicles : Supercapacitor <b>2018</b> ,		2
24	Computational modeling and experimental analysis on the improvement of current mismatch in a W-type series-connected dye-sensitized solar module. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2013</b> , 268, 17-23	4.7	1
23	Feasible Challenges and Applications of IoT in Healthcare. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , <b>2020</b> , 178-200	0.3	1
22	Designing nanosheet manganese cobaltate@manganese cobaltate nanosheet arrays as a battery-type electrode material towards high-performance supercapacitors. <i>Journal of Energy Storage</i> , <b>2021</b> , 103603	7.8	1
21	Deduction of Optimal Conditions for Acrylic Etching Technique by using CO <sub>2</sub> Laser. <i>Journal of Electrical Engineering and Technology</i> , <b>2007</b> , 2, 106-111	1.4	1
20	A Protection Circuit for the Power Supply of a Gas Discharge Lamp. <i>Journal of Power Electronics</i> , <b>2010</b> , 10, 777-783	0.9	1
19	A Seamless Transfer Algorithm Based on Frequency Detection with Feedforward Control Method in Distributed Generation System. <i>Journal of Power Electronics</i> , <b>2015</b> , 15, 1066-1073	0.9	1
18	A Study on FTO-less Dye Sensitized Solar Cell with Ti Deposited Glass. <i>Transactions of the Korean Institute of Electrical Engineers</i> , <b>2013</b> , 62, 208-212	1.5	1
17	CuBr <sub>2</sub> -induced charge screening on photoactive nanocolloidal polypyrrole:poly(styrene sulfonate) composite multilayer thin-film counter electrodes for high-efficiency dye-sensitized solar cells. <i>Polymer International</i> , <b>2016</b> , 65, 584-595	3.3	1
16	Fabrication of High-Performance Asymmetric Supercapacitor Consists of Nickel Oxide and Activated Carbon (NiO//AC). <i>Catalysts</i> , <b>2022</b> , 12, 375	4	1
15	Facile synthesis of NF/ZnOx and NF/CoOx nanostructures for high performance supercapacitor electrode materials.. <i>RSC Advances</i> , <b>2019</b> , 9, 21225-21232	3.7	

14	Optimized tissue heating by adopting high frequency electrotherapy. <i>Digital Communications and Networks</i> , <b>2015</b> , 1, 275-283	5.9
13	Alignment of TiO <sub>2</sub> (Anatase) Crystal of Dye-Sensitized Solar Cells by External Magnetic Field. <i>International Journal of Photoenergy</i> , <b>2013</b> , 2013, 1-6	2.1
12	A novel localization method in a large structure with a level monitoring system. <i>Optics and Lasers in Engineering</i> , <b>2011</b> , 49, 36-40	4.6
11	Sterilization of Escherichia coli by using near-UV LED and TiO <sub>2</sub> nanofibers that were prepared by using electrostatic spray. <i>Physica Scripta</i> , <b>2010</b> , T139, 014011	2.6
10	A Study of DSC Using Ultrasonic and Thermal Treatment on Nano-Crystalline TiO <sub>2</sub> Surface <b>2008</b> , 1690-1694	
9	Efficient Management of Fast Charging Systems Based on a Real-Time Monitoring System. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 520	2.6
8	LED Module Calibration Strategy to Improve Measurement Accuracy of TRO Concentration. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 2410	2.6
7	Ballast Water Sterilization Using an Arc Discharge and Monitoring System. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 505-510	0.9
6	A New CW CO <sub>2</sub> Laser with Precise Output and Minimal Fluctuation by Adopting a High-frequency LCC Resonant Converter. <i>Journal of Electrical Engineering and Technology</i> , <b>2011</b> , 6, 842-848	1.4
5	A Study on the ZnO Anti-reflection Layer of Dye Sensitized Solar Cell using Zinc Nitrate Solution. <i>Transactions of the Korean Institute of Electrical Engineers</i> , <b>2012</b> , 61, 705-710	1.5
4	Efficient Electricity Management System for Optimal Peak/Off-Peak Hour Pricing. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1189	2.6
3	Fine Dust Removing by Using Li+ Batteries and High - performance Supercapacitor Parallel Connection. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 342, 012021	0.3
2	Analysis of Fine Dust Removal Time Using Circular Hole Electrodes of Various Sizes by Corona Discharge. <i>Energies</i> , <b>2018</b> , 11, 1956	3.1
1	A Novel Strategy for Monitoring a PV Junction Box Based on LoRa in a 3 kW Residential PV System. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 709	2.6