

# Won-Chun Oh

## List of Publications by Citations

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158  
papers

1,674  
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22  
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175  
ext. papers

2,213  
ext. citations

3.6  
avg, IF

5.62  
L-index

#	Paper	IF	Citations
158	Enhanced sonocatalytic degradation of organic dyes from aqueous solutions by novel synthesis of mesoporous FeO-graphene/ZnO@SiO nanocomposites. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 41, 267-278	8.9	97
157	Synthesis of fullerene modified with Ag <sub>2</sub> S with high photocatalytic activity under visible light. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 16127		76
156	Effect of Pt treated fullerene/TiO <sub>2</sub> on the photocatalytic degradation of MO under visible light. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 7596		64
155	One-step hydrothermal fabrication of strongly coupled Co <sub>3</sub> O <sub>4</sub> nanosheets/reduced graphene oxide for electrochemical capacitors. <i>RSC Advances</i> , <b>2014</b> , 4, 14408-14413	3.7	62
154	Synthesis and characterization of novel PbS/graphene/TiO <sub>2</sub> composite with enhanced photocatalytic activity. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2014</b> , 20, 1035-1042	6.3	59
153	Characterization and relative sonocatalytic efficiencies of a new MWCNT and CdS modified TiO <sub>2</sub> catalysts and their application in the sonocatalytic degradation of rhodamine B. <i>Ultrasonics Sonochemistry</i> , <b>2013</b> , 20, 478-84	8.9	57
152	Synthesis of frost-like CuO combined graphene-TiO <sub>2</sub> by self-assembly method and its high photocatalytic performance. <i>Applied Surface Science</i> , <b>2017</b> , 412, 252-261	6.7	47
151	Sonocatalytic degradation of Rhodamine B in the presence of C <sub>60</sub> and CdS coupled TiO <sub>2</sub> particles. <i>Ultrasonics Sonochemistry</i> , <b>2012</b> , 19, 143-50	8.9	43
150	Synthesis of mesoporous SiO <sub>2</sub> /Cu <sub>2</sub> O/graphene nanocomposites and their highly efficient photocatalytic performance for dye pollutants. <i>RSC Advances</i> , <b>2017</b> , 7, 29284-29294	3.7	38
149	Synergistic effect of PtSe <sub>2</sub> and graphene sheets supported by TiO <sub>2</sub> as cocatalysts synthesized via microwave techniques for improved photocatalytic activity. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 184-198	5.5	36
148	Preparation of Nanowire like WSe-Graphene Nanocomposite for Photocatalytic Reduction of CO into CHOH with the Presence of Sacrificial Agents. <i>Scientific Reports</i> , <b>2017</b> , 7, 1867	4.9	33
147	Optical and photocatalytic properties of novel heterogeneous PtSe <sub>2</sub> -graphene/TiO <sub>2</sub> nanocomposites synthesized via ultrasonic assisted techniques. <i>Ultrasonics Sonochemistry</i> , <b>2014</b> , 21, 1849-57	8.9	33
146	Evaluation of the photocatalytic efficiency of cobalt oxide nanoparticles towards the degradation of crystal violet and methylene violet dyes. <i>Optik</i> , <b>2020</b> , 207, 164428	2.5	31
145	Enhanced electromagnetic wave absorption performance of silane coupling agent KH550@Fe <sub>3</sub> O <sub>4</sub> hollow nanospheres/graphene composites. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2913-2926	7.1	31
144	Novel synthesis of WSe-Graphene-TiO ternary nanocomposite via ultrasonic technics for high photocatalytic reduction of CO into CHOH. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 42, 738-746	8.9	30
143	Comparative study on gas sensing by a Schottky diode electrode prepared with graphene-semiconductor-polymer nanocomposites.. <i>RSC Advances</i> , <b>2019</b> , 9, 11484-11492	3.7	29
142	Ternary self-assembly method of mesoporous silica and Cu <sub>2</sub> O combined graphene composite by nonionic surfactant and photocatalytic degradation of cationic-anionic dye pollutants. <i>Separation and Purification Technology</i> , <b>2018</b> , 190, 77-89	8.3	24

141	Rhodamine B degradation and reactive oxygen species generation by a ZnSe-graphene/TiO <sub>2</sub> sonocatalyst. <i>Chinese Journal of Catalysis</i> , <b>2014</b> , 35, 1825-1832	11.3	24
140	Fabrication and physicochemical characterization of g-C <sub>3</sub> N <sub>4</sub> /ZnO composite with enhanced photocatalytic activity under visible light. <i>Optical Materials</i> , <b>2020</b> , 100, 109643	3.3	24
139	Rapid sonochemical synthesis of novel PbSe-graphene-TiO <sub>2</sub> composite sonocatalysts with enhanced on decolorization performance and generation of ROS. <i>Ultrasonics Sonochemistry</i> , <b>2015</b> , 27, 252-261	8.9	23
138	A review on graphene based transition metal oxide composites and its application towards supercapacitor electrodes. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	22
137	Microwave synthesis of a CoSe <sub>2</sub> /graphene//TiO <sub>2</sub> heterostructure for improved hydrogen evolution from aqueous solutions in the presence of sacrificial agents. <i>RSC Advances</i> , <b>2015</b> , 5, 18841-18849	3.7	22
136	Synthesis of BiVO <sub>4</sub> -GO-PVDF nanocomposite: An excellent, newly designed material for high photocatalytic activity towards organic dye degradation by tuning band gap energies. <i>Solid State Sciences</i> , <b>2018</b> , 80, 22-30	3.4	21
135	Synthesis and characterization of novel PtSe <sub>2</sub> /graphene nanocomposites and its visible light driven catalytic properties. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 4139-4147	4.3	20
134	A novel BiVO <sub>4</sub> -GO-TiO <sub>2</sub> -PANI composite for upgraded photocatalytic performance under visible light and its non-toxicity. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 11888-11904	5.1	20
133	Synthesis and Characterization of MoS <sub>2</sub> /Graphene-TiO <sub>2</sub> Ternary Photocatalysts for High-Efficiency Hydrogen Production under Visible Light. <i>Journal of the Korean Ceramic Society</i> , <b>2019</b> , 56, 284-290	2.2	19
132	Green synthesis of cuprous oxide nanoparticles for environmental remediation and enhanced visible-light photocatalytic activity. <i>Optik</i> , <b>2020</b> , 214, 164849	2.5	18
131	Comparative studies of crystal violet dye removal between semiconductor nanoparticles and natural adsorbents. <i>Optik</i> , <b>2020</b> , 206, 164281	2.5	18
130	Novel synthesis of nano needle-like Cu <sub>2</sub> O-GO-TiO <sub>2</sub> and CuO-GO-TiO <sub>2</sub> for the high photocatalytic performance of anionic and cationic pollutants. <i>Solid State Sciences</i> , <b>2019</b> , 91, 77-88	3.4	17
129	Synthesis of BiVO <sub>4</sub> -GO-PTFE nanocomposite photocatalysts for high efficient visible-light-induced photocatalytic performance for dyes. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 15106-15117	2.1	17
128	A new synergetic mesoporous silica combined to CdSe-graphene nanocomposite for dye degradation and hydrogen evolution in visible light. <i>Materials Research Bulletin</i> , <b>2018</b> , 107, 14-27	5.1	16
127	Hybrid of Graphene based on quaternary CuZnNiSe -WO Nanorods for Counter Electrode in Dye-sensitized Solar Cell Application. <i>Scientific Reports</i> , <b>2020</b> , 10, 4738	4.9	15
126	Photocatalytic activities of contaminants by Bi <sub>2</sub> WO <sub>6</sub> -graphene composites decorated with mesoporous silica. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 766, 477-487	5.7	15
125	A simple ultrasono-synthetic route of PbSe-graphene-TiO <sub>2</sub> ternary composites to improve the photocatalytic reduction of CO <sub>2</sub> . <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2017</b> , 25, 449-458	1.8	13
124	A New Aspect for Band Gap Energy of Graphene-MgCuSnCoO-Gallic Acid as a Counter Electrode for Enhancing Dye-Sensitized Solar Cell Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 38859-38867	0.5	13

123	A facile route to synthesize ternary Cu <sub>2</sub> O quantum dot/graphene-TiO <sub>2</sub> nanocomposites with an improved photocatalytic effect. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2017</b> , 25, 684-690	1.8	12
122	A novel and simple approach for the synthesis of Fe <sub>3</sub> O <sub>4</sub> -graphene composite. <i>Korean Journal of Chemical Engineering</i> , <b>2012</b> , 29, 989-993	2.8	12
121	Characterization of Graphene Nanosheets as Electrode Material and Their Performances for Electric Double-Layer Capacitors. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2013</b> , 21, 525-536	1.8	12
120	Polypyrrole-Bonded Quaternary Semiconductor LiCuMoO-Graphene Nanocomposite for a Narrow Band Gap Energy Effect and Its Gas-Sensing Performance. <i>ACS Omega</i> , <b>2020</b> , 5, 17337-17346	3.9	12
119	CVD grown graphene/CNT composite as additive material to improve the performance of electric double layer capacitors (EDLCs). <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 6592-6600 <sup>2,1</sup>	2.1	11
118	Modified hydrothermal synthesis and characterization of reduced graphene oxide-silver selenide nanocomposites with enhanced reactive oxygen species generation. <i>Chinese Journal of Catalysis</i> , <b>2015</b> , 36, 603-611	11.3	11
117	Degradation of Organic Dyes by CdSe Decorated Graphene Nanocomposite in Dark Ambiance. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2015</b> , 23, 437-448	1.8	11
116	Highly efficient visible light driven photocatalytic activities of the LaCuS <sub>2</sub> -graphene composite-decorated ordered mesoporous silica. <i>Separation and Purification Technology</i> , <b>2018</b> , 205, 11-21 <sup>8,3</sup>	8.3	11
115	Microwave-assisted synthesis of a grapheneBi <sub>8</sub> La <sub>10</sub> O <sub>27</sub> nanocomposite as an efficient catalytic counter electrode for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 9613-9622	3.6	11
114	Fabrication of nitrogen-rich graphitic carbon nitride/Cu <sub>2</sub> O (g-C <sub>3</sub> N <sub>4</sub> @Cu <sub>2</sub> O) composite and its enhanced photocatalytic activity for organic pollutants degradation. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 2257-2268	2.1	11
113	Novel Micro and Nanostructure of a AgCuInS-Graphene-TiO Ternary Composite for Photocatalytic CO Reduction for Methanol Fuel. <i>ACS Omega</i> , <b>2020</b> , 5, 26389-26401	3.9	11
112	Facile synthesis of La-doped cobalt ferrite@glucose-based carbon composite as effective multiband microwave absorber. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 2191-2200	3.8	11
111	Novel synthesis of LaNiSbWO <sub>4</sub> -G-PANI Designed as Quaternary Type Composite for High Photocatalytic Performance of Anionic Dye and Trihydroxybenzoic acid under Visible-Light. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 126, 348-355	5.5	10
110	Novel and simple process for the photocatalytic reduction of CO <sub>2</sub> with ternary Bi <sub>2</sub> O <sub>3</sub> @graphene@ZnO nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 10222-10233	2.1	10
109	Novel cadmium oxide-graphene nanocomposite grown on mesoporous silica for simultaneous photocatalytic H <sub>2</sub> -evolution. <i>Chemosphere</i> , <b>2020</b> , 239, 124825	8.4	10
108	Exploring the therapeutic potentials of phyto-mediated silver nanoparticles formed via <i>Calotropis procera</i> (Ait.) R. Br. root extract. <i>Journal of Experimental Nanoscience</i> , <b>2020</b> , 15, 217-231	1.9	9
107	Enhanced photocatalytic activity of Cuprous Oxide nanoparticles for malachite green degradation under the visible light radiation. <i>Materials Research Express</i> , <b>2020</b> , 7, 015038	1.7	9
106	A Fluorescence Switching Sensor for Sensitive and Selective Detections of Cyanide and Ferricyanide Using Mercuric Cation-Graphene Quantum Dots. <i>ACS Omega</i> , <b>2021</b> , 6, 14379-14393	3.9	9

105	Catalytic reduction of CO <sub>2</sub> to alcohol with Cu <sub>2</sub> Se-combined graphene binary nanocomposites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2016</b> , 24, 555-563	1.8	9
104	Research progress of defective MoS <sub>2</sub> for photocatalytic hydrogen evolution. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 135-147	2.2	9
103	A simple ultrasonic-synthetic route of Cu <sub>2</sub> Se-graphene-TiO <sub>2</sub> ternary composites for carbon dioxide conversion processes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2018</b> , 26, 827-836	1.8	9
102	New design of mesoporous SiO <sub>2</sub> combined In <sub>2</sub> O <sub>3</sub> -graphene semiconductor nanocomposite for highly effective and selective gas detection. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 13085-13101	4.3	8
101	Sonochemical synthesis of graphene based PbSe nanocomposite as efficient catalytic counter electrode for dye-sensitized solar cell. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 2062-2070	2.1	8
100	Comparative Study of Electrochemical Biosensors Based on Highly Efficient Mesoporous ZrO-Ag-G-SiO and InO-G-SiO for Rapid Recognition of. <i>ACS Omega</i> , <b>2020</b> , 5, 22719-22730	3.9	8
99	The double perovskite structure effect of a novel LaCuNiO-ZnSe-graphene nanocatalytic composite for dye sensitized solar cells as a freestanding counter electrode. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 1389-1397	4.2	7
98	High performance for electric double-layer capacitors based on CNT/G composite synthesized as additive material by CVD method. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 54, 428-433	6.3	7
97	Synthesis of (Ag) <sub>2</sub> (Se)/graphene(TiO <sub>2</sub> ) nanocomposite and analysis of photocatalytic activity of (CO) <sub>2</sub> reduction to (CH) <sub>3</sub> (OH). <i>Bulletin of Materials Science</i> , <b>2017</b> , 40, 1319-1328	1.7	7
96	A comprehensive review on green synthesis of titanium dioxide nanoparticles and their diverse biomedical applications. <i>Green Processing and Synthesis</i> , <b>2022</b> , 11, 44-63	3.9	7
95	Exploration of the antibacterial capacity and ethanol sensing ability of Cu-TiO <sub>2</sub> nanoparticles. <i>Journal of Experimental Nanoscience</i> , <b>2020</b> , 15, 337-349	1.9	7
94	Enhanced photocatalytic activity of CO <sub>2</sub> reduction to methanol through the use of a novel-structured CuCaAg <sub>2</sub> Se/graphene/TiO <sub>2</sub> ternary nanocomposite. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 16795-16809	3.6	7
93	Functionalized graphene-based nanocomposites for smart optoelectronic applications. <i>Nanotechnology Reviews</i> , <b>2021</b> , 10, 605-635	6.3	7
92	Novel flexible Ag nanoparticles doped on graphene/Ba <sub>2</sub> GaInO <sub>6</sub> as cathode material for enhancement in the power conversion of DSSCs. <i>Solar Energy</i> , <b>2019</b> , 180, 510-518	6.8	6
91	Comparison of sunlight-driven photocatalytic activity of semiconductor metal oxides of tin oxide and cadmium oxide nanoparticles. <i>Optik</i> , <b>2020</b> , 217, 164878	2.5	6
90	Mechanistic anticarcinogenic efficacy of phytofabricated gold nanoparticles on human lung adenocarcinoma cells. <i>Journal of Experimental Nanoscience</i> , <b>2020</b> , 15, 160-173	1.9	6
89	Simultaneous determination of Hg(II) and Cu(II) in water samples using fluorescence quenching sensor of N-doped and N,K co-doped graphene quantum dots. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 3714-3723	5.9	6
88	New Design of Active Material Based on YInWO-G-SiO for a Urea Sensor and High Performance for Nonenzymatic Electrical Sensitivity. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 6981-6994	5.5	6

87	Microwave-assisted synthesis of Bi <sub>2</sub> Se <sub>3</sub> /reduced graphene oxide nanocomposite as efficient catalytic counter electrode for dye-sensitized solar cell. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2016</b> , 24, 622-629	1.8	6
86	Eco-friendly conductive polymer-based nanocomposites, BiVO <sub>4</sub> /graphene oxide/polyaniline for excellent photocatalytic performance. <i>Polymer Bulletin</i> , <b>2020</b> , 77, 4381-4400	2.4	6
85	Strategy to improve photovoltaic performance of DSSC sensitized by using novel nanostructured La doped TiO <sub>2</sub> -graphene electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 3437-3448 <sup>6</sup>	2.1	6
84	An alternative of NiCoSe doped graphene hybrid La <sub>6</sub> W <sub>2</sub> O <sub>15</sub> for renewable energy conversion used in dye-sensitized solar cells. <i>Solid State Ionics</i> , <b>2018</b> , 327, 99-109	3.3	6
83	An eco-friendly synthesized mesoporous-silica particle combined with WSe-graphene-TiO by self-assembled method for photocatalytic dye decomposition and hydrogen production. <i>Scientific Reports</i> , <b>2018</b> , 8, 12759	4.9	6
82	Enhanced photocatalytic degradation of Acid Blue dye using CdS/TiO nanocomposite.. <i>Scientific Reports</i> , <b>2022</b> , 12, 5759	4.9	6
81	Electroanalytical characteristic of a novel biosensor designed with graphene-polymer-based quaternary and mesoporous nanomaterials. <i>Bulletin of Materials Science</i> , <b>2020</b> , 43, 1	1.7	5
80	Fabrication and enhancement in photoconductive response of (alpha)-Fe <sub>2</sub> O <sub>3</sub> /graphene nanocomposites as anode material. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 17786-17794 <sup>5</sup>	2.1	5
79	Excellent visible light photocatalytic properties of novel graphene based CdLa <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> heterojunction nanocomposite. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2017</b> , 25, 1-11	1.8	5
78	Preparation of coral-like palygorskite-dispersed Fe <sub>3</sub> O <sub>4</sub> /polyaniline with improved electromagnetic absorption performance. <i>Applied Clay Science</i> , <b>2021</b> , 204, 106009	5.2	5
77	Synthesis of g-C <sub>3</sub> N <sub>4</sub> /diatomite/MnO <sub>2</sub> composites and their enhanced photo-catalytic activity driven by visible light. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 548-558	2.2	5
76	Synergetic effect of La <sub>2</sub> CdSnTiO <sub>4</sub> -WSe <sub>2</sub> perovskite structured nanoparticles on graphene oxide for high efficiency of dye sensitized solar cells. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 775, 690-697	5.7	5
75	Three-dimensional of graphene oxide Ba <sub>2</sub> VPbSe <sub>6</sub> framework composite attach on cellulose based counter electrode for dye-sensitized solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 372, 11-20	4.7	5
74	Nanoformulations of core-shell type hydroxyapatite-coated gum acacia with enhanced bioactivity and controlled drug delivery for biomedical applications. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 7175-7185 <sup>3,6</sup>	3.6	5
73	Enhanced Photocatalytic Activity of rGO-CuO Nanocomposites for the Degradation of Organic Pollutants. <i>Catalysts</i> , <b>2021</b> , 11, 1008	4	5
72	Enhanced gas sensing and photocatalytic activity of reduced graphene oxide loaded TiO <sub>2</sub> nanoparticles. <i>Chemical Physics Letters</i> , <b>2021</b> , 780, 138897	2.5	5
71	Preparation of highly expanded graphene with large surface area and its additional conductive effect for EDLC performance. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2015</b> , 26, 6945-6953	2.1	4
70	Bubble template synthesis of CdLa <sub>2</sub> S <sub>4</sub> hollow spheres/reduced graphene oxide nanocomposites as efficient and sustainable visible-light driven photocatalysts. <i>RSC Advances</i> , <b>2015</b> , 5, 90321-90334	3.7	4

69	Preparation and photocatalytic activity of a novel BiOCl/g-C <sub>3</sub> N <sub>4</sub> thin film prepared via spin coating. <i>Journal of the Korean Ceramic Society</i> , <b>2020</b> , 57, 331-337	2.2	4
68	A glassy carbon electrode modified with tailored nanostructures of cobalt oxide for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 18850-18858	6.7	4
67	Immobilization of Bi <sub>2</sub> O <sub>3</sub> Particles on Activated Carbon Fiber and Its Photodegradation Performance for Pollutant Dyes. <i>Asian Journal of Chemistry</i> , <b>2018</b> , 30, 491-498	0.4	4
66	MWCNT-Based Ag <sub>2</sub> S-TiO <sub>2</sub> Nanocomposites Photocatalyst: Ultrasound-Assisted Synthesis, Characterization, and Enhanced Catalytic Efficiency. <i>Journal of Nanomaterials</i> , <b>2012</b> , 2012, 1-10	3.2	4
65	Influence of sonication on the physicochemical and biological characteristics of selenium-substituted hydroxyapatites. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 17453-17464	3.6	4
64	Photocatalytic activities using a nanocomposite of mesoporous SiO <sub>2</sub> and CdInSe-graphene nanoparticles under visible light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 371, 271-281	4.7	4
63	Sono-synthesized Fe <sub>3</sub> O <sub>4</sub> @ONH <sub>2</sub> nanocomposite for highly efficient ultrasound-assisted magnetic dispersive solid-phase microextraction of hazardous dye Congo red from water samples. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 201-211	2.2	4
62	A comparative electrochemical study of non-enzymatic glucose, ascorbic acid, and albumin detection by using a ternary mesoporous metal oxide (ZrO, SiO and InO) modified graphene composite based biosensor.. <i>RSC Advances</i> , <b>2021</b> , 11, 4256-4269	3.7	4
61	Highly improved performances of DSSC prepared with crystalline type CoS <sub>2</sub> dispersed on graphene. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 1393-1401	2.1	3
60	Surface modification and electrochemical performance of KMnO <sub>4</sub> -ultra-surface area activated carbon (USAC) composites as cathode material. <i>Journal of the Korean Ceramic Society</i> , <b>2020</b> , 57, 585-596	2.2	3
59	Modification of graphene based on a Ba <sub>2</sub> Cu <sub>8</sub> Ni <sub>2</sub> Se <sub>12</sub> catalyst with CoS nanospheres for a counter electrode for dye-sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 4199-4205	3.6	3
58	Docking and in vitro molecular biology studies of p-anisidine-appended 1-hydroxy-2-acetonaphthanone Schiff base lanthanum(III) complexes. <i>RSC Advances</i> , <b>2020</b> , 10, 16457-16472	2.7	3
57	Copper Metallic Powder Effect for Expanded Graphite Plate for Thermal Conductivity. <i>Asian Journal of Chemistry</i> , <b>2017</b> , 29, 2154-2158	0.4	3
56	The synthesis of large area graphene/carbon nanotubes as additive material and their enhanced specific capacitance. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 9624-9633	2.1	3
55	Facile hydrothermal synthesis of graphene-ZnSe electro-catalytic electrodes for dye sensitized solar cells. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2016</b> , 24, 324-331	1.8	3
54	Fabrication of large size graphene and Ti- MWCNTs/ large size graphene composites: their photocatalytic properties and potential application. <i>Scientific Reports</i> , <b>2015</b> , 5, 14242	4.9	3
53	Improvement in Water Resistance of Desulfurized Gypsum by Novel Modification of Silicone Oil Paraffin Composite Emulsion-based Waterproofing Agent. <i>Journal of the Korean Ceramic Society</i> , <b>2019</b> , 56, 558-565	2.2	3
52	Ultratrace Detection of Nickel(II) Ions in Water Samples Using Dimethylglyoxime-Doped GQDs as the Induced Metal Complex Nanoparticles by a Resonance Light Scattering Sensor. <i>ACS Omega</i> , <b>2021</b> , 6, 14796-14805	3.9	3

51	Detection of oxygen species generated of C70-Ag <sub>2</sub> Se heterojunction photocatalysts with excellent visible light driven photocatalytic performance. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2016</b> , 24, 415-422	1.8	3
50	Novel designed quaternary CuZnSnSe semiconductor combined graphene-polymer (CuZnSnSe-G-PPy) composites for highly selective gas-sensing properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 12812-12821	2.1	3
49	3D shape of BiVO <sub>4</sub> -GO nanocomposite for excellent photocatalytic performance on standard and industrial dyes under visible light. <i>Journal of the Korean Ceramic Society</i> , 1	2.2	3
48	Detection of Oxygen Species Generated in the Presence of CNT by Loading ZnS. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2015</b> , 45, 1373-1379		2
47	Synthesis of large-area graphene improved with TiO <sub>2</sub> for a novel photonic response by the ultrasonic method via CVD. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2016</b> , 24, 108-115	1.8	2
46	CVD technique assisted, advanced synthesis of WO <sub>3</sub> -G composites for enhanced photocatalytic H <sub>2</sub> generation under visible light illumination. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2019</b> , 27, 762-769	1.8	2
45	Formation and catalytic performance of novel colourful BiOI photocatalysts with adjustable bandgap under visible light. <i>Micro and Nano Letters</i> , <b>2014</b> , 9, 702-706	0.9	2
44	Ultrasonic-Assisted Synthesis of Pd-MWCNT/TiO <sub>2</sub> Catalysts and Its Application in the Photodegradation of Reactive Black B. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2015</b> , 23, 599-604	1.8	2
43	New modeling of 3D quaternary type BaCuZnS-graphene-TiO (BCZS-G-T) composite for photosonocatalytic hydrogen evolution with scavenger effect. <i>Photochemical and Photobiological Sciences</i> , <b>2020</b> , 19, 1765-1775	4.2	2
42	Sonochemical synthesis of PANI-BiVO <sub>4</sub> -GO semiconductor nanocomposite highly efficient visible-light photocatalytic performance. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2020</b> , 28, 945-958	1.8	2
41	Microwave-assisted synthesis of conducting polymer matrix based thin film NaLa (MoO <sub>4</sub> ) <sub>2</sub> -G-PPy composites for high-performance gas sensing.. <i>Surfaces and Interfaces</i> , <b>2020</b> , 21, 100713	4.1	2
40	Drug delivery and in vitro biological effects of gum ghatti-modified hydroxyapatite nanoporous composites. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 263, 124385	4.4	2
39	Surface Modification Effect and Electrochemical Performance of LiOH-High Surface Activated Carbon as a Cathode Material in EDLC. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
38	Quaternary nanorod-type BaInSbSe <sub>5</sub> semiconductor combined graphene-based conducting polymer (PPy) nanocomposite and highly sensing performance of H <sub>2</sub> O <sub>2</sub> & H <sub>2</sub> S gases. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 15944-15963	2.1	2
37	High surface area mesoporous BiZnSbV-G-SiO <sub>2</sub> -based electrochemical biosensor for quantitative and rapid detection of microalbuminuria. <i>Journal of Applied Electrochemistry</i> , <b>2021</b> , 51, 1345-1360	2.6	2
36	Fabrication of CdO-graphene embedded mesoporous TiO <sub>2</sub> composite for the visible-light response and its organic dye remediation. <i>Separation Science and Technology</i> , <b>2020</b> , 55, 1544-1557	2.5	2
35	Modeling dye-sensitized solar cells with graphene based on nanocomposites in the Brillouin zone and density functional theory. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 50-61	2.2	2
34	Smart stimuli-responsive nanocarriers for the cancer therapy [nanomedicine. <i>Nanotechnology Reviews</i> , <b>2021</b> , 10, 933-953	6.3	2



33	Temperature dependence for high electrical performance of Mn-doped high surface area activated carbon (HSAC) as additives for hybrid capacitor. <i>Scientific Reports</i> , <b>2021</b> , 11, 534	4.9	2
32	Chemo-Electrical Gas Sensors Based on LaNiMoSe <sub>2</sub> in Graphene and Conducting Polymer PANI Composite Semiconductor Nanocomposite. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 5754-5764	1.9	2
31	Photocatalytic CO <sub>2</sub> reduction with new band gap energy evaluation from spectroscopic relationship of graphene-Mg <sub>2</sub> CuSnCoO <sub>6</sub> composite bridged with organics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2021</b> , 134, 114864	3	2
30	Novel PbSe/Graphene Nanocomposites Synthesized With Ultrasonic Assisted Method and their Enhanced Photocatalytic Activity. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2015</b> , 45, 531-538		1
29	Preparation of porous cordierite ceramic with acid-leached coal gangue. <i>Journal of the Korean Ceramic Society</i> , <b>2020</b> , 57, 447-453	2.2	1
28	Crack-free TiO <sub>2</sub> films prepared by adjusting processing parameters via liquid phase deposition technique. <i>Journal of the Korean Ceramic Society</i> , <b>2020</b> , 57, 206-212	2.2	1
27	Novel preparation of expanded nano-graphene-based electrodes for EDLC and their improved electrochemical performance. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2016</b> , 24, 446-454	1.8	1
26	Microwave absorption and photocatalytic activity of Mg <sub>x</sub> Zn <sub>1-x</sub> ferrite/diatomite composites. <i>Journal of the Korean Ceramic Society</i> , 1	2.2	1
25	Preparation of AgCl/Ag <sub>3</sub> PO <sub>4</sub> /Diatomite Composite by Microemulsion Method for Rapid Photo-Degradation of Rhodamine B with Stability under Visible Light. <i>Korean Journal of Materials Research</i> , <b>2020</b> , 30, 383-392	0.2	1
24	Study on the Waterproofing Performance of FGD Gypsum Building Products from Inorganic-Organic Composite Additives. <i>Korean Journal of Materials Research</i> , <b>2015</b> , 25, 590-597	0.2	1
23	New modeling of AgFeNi <sub>2</sub> S <sub>4</sub> -graphene-TiO <sub>2</sub> ternary nanocomposite with chelate compounds and its photocatalytic reduction of CO <sub>2</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 9804-9821	2.1	1
22	Enhanced photocatalytic H <sub>2</sub> -production and photocatalytic degradation activity of cadmium oxide/graphene nanocomposite grown on mesoporous silica under visible light irradiation. <i>Journal of Porous Materials</i> , <b>2020</b> , 27, 151-163	2.4	1
21	Polymer bonded Graphene- LaNiSbWO <sub>4</sub> nanocomposite (G-LaNiSbWO <sub>4</sub> -PPy) for CO <sub>2</sub> sensing performance under normal temperature condition. <i>Inorganic and Nano-Metal Chemistry</i> , 1-10	1.2	1
20	Photo-Electrochemical Reduction of CO <sub>2</sub> to Methanol on Quaternary Chalcogenide Loaded Graphene-TiO <sub>2</sub> Ternary Nanocomposite Fabricated via Pechini Method. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1	3.2	1
19	Influencing Factors in the Synthesis of Photoactive Nanocomposites of ZnO/SiO <sub>2</sub> -Porous Heterostructures from Montmorillonite and the Study for Methyl Violet Photodegradation.. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
18	Graphene-based nanocomposite using new modeling molecular dynamic simulations for proposed neutralizing mechanism and real-time sensing of COVID-19. <i>Nanotechnology Reviews</i> , <b>2022</b> , 11, 1555-1569	6.3	1
17	Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoflakes synthesized using biogenic silica from Salacca zalacca leaf ash and the mechanistic insight into adsorption and photocatalytic wet peroxidation of dye. <i>Green Processing and Synthesis</i> , <b>2022</b> , 11, 345-360	3.9	1
16	Synthesis of Polyaniline Supported CdS/CdS-ZnS/CdS-TiO <sub>2</sub> Nanocomposite for Efficient Photocatalytic Applications.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	1

15	Selective Fe(ii)-fluorescence sensor with validated two-consecutive working range using N,S,I-GQDs associated with garlic extract as an auxiliary green chelating agent. <i>RSC Advances</i> , <b>2022</b> , 12, 14356-14367	3.7	1
14	Novel preparation of functional BiC fiber based InO nanocomposite and controlling of influence factors for the chemical gas sensing.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7241	4.9	1
13	Novel gamma-irradiated chitosan-doped reduced graphene-CuInS2 composites as counter electrodes for dye-sensitized solar cells. <i>RSC Advances</i> , <b>2022</b> , 12, 15427-15434	3.7	1
12	New EDLC designed with CNT-AC synthesized via CVD method as additional material for the improved cell resistance. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2018</b> , 26, 263-268	1.8	0
11	In situ growth of CdS spherical nanoparticles/Ti3C2 MXene nanosheet heterojunction with enhanced photocatalytic hydrogen evolution. <i>Journal of the Korean Ceramic Society</i> ,1	2.2	0
10	Non-enzymatic sensing of glucose with high specificity and sensitivity based on high surface area mesoporous BiZnSbV-G-SiO2. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 8330-8346	2.1	0
9	A novel fabrication of organic-inorganic hybridized Graphene-La2CrFeW6 nanocomposite and its improved photovoltaic performance in DSSCs. <i>Journal of Science: Advanced Materials and Devices</i> , <b>2021</b> , 6, 271-279	4.2	0
8	Preparation of lithium-doped NaV6O15 thin film cathodes with high cycling performance in SIBs. <i>Journal of the Korean Ceramic Society</i> ,1	2.2	0
7	3D ternary LaCdSe-GO-TiO2 nanocomposite synthesized with high powersonic method and sonophotocatalytic efficiency for hydrogen evolution with different scavengers. <i>Research on Chemical Intermediates</i> , <b>2021</b> , 47, 3411-3436	2.8	0
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5	Photocatalytic decolorization of ZnO/Fe for the removal of methylene blue by new microwave methodology. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2022</b> , 33, 7606-7620	2.1	0
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1	Novel synthesis of quaternary nanocomposites based on chemical vapor grown graphene for photocatalytic hydrogen evolution. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2016</b> , 24, 487-493	1.8	