

# Hyun Gil Cha

## List of Publications by Year in Descending Order

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

84  
papers

2,881  
citations

27  
h-index

52  
g-index

94  
ext. papers

3,364  
ext. citations

5.1  
avg, IF

5.37  
L-index

#	Paper	IF	Citations
84	Selective liquid chemicals on CO <sub>2</sub> reduction by energy level tuned rGO/TiO <sub>2</sub> dark cathode with BiVO <sub>4</sub> photoanode. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 295, 120267	21.8	4
83	Depolymerization of PET into terephthalic acid in neutral media catalyzed by the ZSM-5 acidic catalyst. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125655	14.7	31
82	Recent Advances in Sustainable Plastic Upcycling and Biopolymers. <i>Biotechnology Journal</i> , <b>2020</b> , 15, e1900489	10.489	51
81	Which electrode is better for biomass valorization: Cu(OH) <sub>2</sub> or CuO nanowire?. <i>Korean Journal of Chemical Engineering</i> , <b>2020</b> , 37, 556-562	2.8	10
80	Enhancing Photocatalytic C-O Bond Cleavage in Lignin Model Compounds by Silver-Exchanged Cadmium Sulfide. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8465-8475	13.1	19
79	Biobased thermoplastic elastomer with seamless 3D-Printability and superior mechanical properties empowered by in-situ polymerization in the presence of nanocellulose. <i>Composites Science and Technology</i> , <b>2020</b> , 185, 107885	8.6	29
78	Deep eutectic solvent stabilised Co <sub>3</sub> D films for electrocatalytic oxidation of 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 14239-14245 <sup>3,6</sup>	3.6	10
77	A chemo-microbial hybrid process for the production of 2-pyrone-4,6-dicarboxylic acid as a promising bioplastic monomer from PET waste. <i>Green Chemistry</i> , <b>2020</b> , 22, 3461-3469	10	13
76	Selective Alcohol on Dark Cathodes by Photoelectrochemical CO <sub>2</sub> Valorization and Their In Situ Characterization. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1549-1555	20.1	7
75	The Renewable and Sustainable Conversion of Chitin into a Chiral Nitrogen-Doped Carbon-Sheath Nanofiber for Enantioselective Adsorption. <i>ChemSusChem</i> , <b>2019</b> , 12, 3236-3242	8.3	7
74	Efficient Fe <sub>2</sub> O <sub>3</sub> /C-g-C <sub>3</sub> N <sub>4</sub> Z-scheme heterojunction photocatalyst prepared by facile one-step carbonizing process. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 130, 93-99	3.9	25
73	Biological Valorization of Poly(ethylene terephthalate) Monomers for Upcycling Waste PET. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19396-19406	8.3	62
72	Chitosan-Derived Porous Activated Carbon for the Removal of the Chemical Warfare Agent Simulant Dimethyl Methylphosphonate. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	5
71	Carbon Support with Tunable Porosity Prepared by Carbonizing Chitosan for Catalytic Oxidation of 5-Hydroxymethylfurfural. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3742-3748	8.3	24
70	Nonstop Monomer-to-Aramid Nanofiber Synthesis with Remarkable Reinforcement Ability. <i>Macromolecules</i> , <b>2019</b> , 52, 923-934	5.5	25
69	A ball milling-based one-step transformation of chitin biomass to organo-dispersible strong nanofibers passing highly time and energy consuming processes. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 125, 660-667	7.9	19
68	Five different chitin nanomaterials from identical source with different advantageous functions and performances. <i>Carbohydrate Polymers</i> , <b>2019</b> , 205, 392-400	10.3	34

67	Electrocatalysis of 5-hydroxymethylfurfural at cobalt based spinel catalysts with filamentous nanoarchitecture in alkaline media. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 85-91	21.8	83
66	Combined biomass valorization and hydrogen production in a photoelectrochemical cell. <i>Nature Chemistry</i> , <b>2015</b> , 7, 328-33	17.6	366
65	Electrochemical Synthesis of Photoelectrodes and Catalysts for Use in Solar Water Splitting. <i>Chemical Reviews</i> , <b>2015</b> , 115, 12839-87	68.1	403
64	Emission controlled dual emitting Eu-doped CaMgSi <sub>2</sub> O <sub>6</sub> nanophosphors. <i>Journal of Luminescence</i> , <b>2015</b> , 157, 131-136	3.8	16
63	Manual assembly of nanocrystals for enhanced photoelectrochemical efficiency of hematite film. <i>Chemical Communications</i> , <b>2015</b> , 51, 6407-10	5.8	17
62	The effect of hydrogen treatment on magnetic property of porous iron oxides nanorods. <i>Materials Letters</i> , <b>2014</b> , 136, 245-250	3.3	2
61	Fabrication of hollow metal oxide nanocrystals by etching cuprous oxide with metal(II) ions: approach to the essential driving force. <i>Nanoscale</i> , <b>2013</b> , 5, 11227-33	7.7	25
60	Photocatalysis: progress using manganese-doped hematite nanocrystals. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 4004	3.6	23
59	Controlling crystal growth orientation and crystallinity of cadmium sulfide nanocrystals in aqueous phase by using cationic surfactant. <i>CrystEngComm</i> , <b>2012</b> , 14, 7888	3.3	11
58	Hierarchical NiO hollow microspheres: electrochemical and magnetic properties. <i>RSC Advances</i> , <b>2012</b> , 2, 9786	3.7	9
57	Vertical cobalt dendrite array films: electrochemical deposition and characterization, glucose oxidation and magnetic properties. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12296		26
56	Nanocrystals of Hematite with Unconventional Shape-Truncated Hexagonal Bipyramid and Its Optical and Magnetic Properties. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 862-868	3.5	62
55	Enhanced photoluminescence of single crystalline ZnO nanotubes in ZnAl <sub>2</sub> O <sub>4</sub> shell. <i>CrystEngComm</i> , <b>2012</b> , 14, 1205	3.3	7
54	One-dimensional ferromagnetic dendritic iron wire array growth by facile electrochemical deposition. <i>Nanoscale</i> , <b>2012</b> , 4, 1565-7	7.7	19
53	Axis-Oriented, Anatase TiO <sub>2</sub> Single Crystals with Dominant {001} and {100} Facets. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 3947-3953	3.5	73
52	Facile preparation of Fe <sub>2</sub> O <sub>3</sub> thin film with photoelectrochemical properties. <i>Chemical Communications</i> , <b>2011</b> , 47, 2441-3	5.8	73
51	Single-Crystalline Porous Hematite Nanorods: Photocatalytic and Magnetic Properties. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19129-19135	3.8	49
50	Hydrothermal synthesis of anatase TiO <sub>2</sub> nanorods with high crystallinity using ammonia solution as a solvent. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 6007-12	1.3	3

49	Preparation and Characterization of the Magnetic Fluid of Trimethoxyhexadecylsilane-Coated Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 9802-9807	3.8	29
48	Enhanced exchange-coupling effect in Nd-Fe-B/Fe-B nanocomposite magnet. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 186-90	1.3	5
47	The influence of low temperature on gamma-ray irradiated permanent magnets. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 6953-6	1.3	2
46	Dielectric and magnetic properties of (x)CoFe <sub>2</sub> O <sub>4</sub> +(1-x)Ba <sub>0.8</sub> Sr <sub>0.2</sub> TiO <sub>3</sub> magnetoelectric composites. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 116, 6-10	4.4	45
45	Preparation and characterization of Fe <sub>2</sub> O <sub>3</sub> nanorod-thin film by metal-organic chemical vapor deposition. <i>Thin Solid Films</i> , <b>2009</b> , 517, 1853-1856	2.2	48
44	Surface Investigation and Magnetic Behavior of Co Nanoparticles Prepared via a Surfactant-Mediated Polyol Process. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5081-5086	3.8	39
43	Effect of Different Surfactants on the Size Control and Optical Properties of Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> Nanoparticles Prepared by Coprecipitation Method. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13600-13604	3.8	43
42	Kinetics of decolorization of spironaphthooxazine-doped photochromic polymer films. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 12923-7	3.4	8
41	Preparation of Dendritic Copper Nanostructures and Their Characterization for Electroreduction. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15891-15896	3.8	95
40	Effect of Different Additives on the Size Control and Emission Properties of Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> Nanoparticles Prepared through the Coprecipitation Method. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 16652-16657	3.8	33
39	Bulklike Thermal Behavior of Antibacterial Ag/BiO <sub>2</sub> Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5105-5110	3.8	27
38	Template assisted growth of cobalt ferrite nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 4942-7	1.3	9
37	Gamma-ray irradiation on microsized Nd-Fe-B and Sr-ferrite magnets at low temperature. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 4067-72	1.3	
36	Characterization on the microstructure of gamma-ray irradiated Nd <sub>2</sub> Fe <sub>14</sub> B magnet. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 827-31	1.3	
35	Characterization of Ag nanoparticle superlattice structure prepared using two carboxylic acids. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 4324-7	1.3	
34	New avenues to efficient chemical synthesis of exchange coupled hard/soft nanocomposite magnet. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 4453-8	1.3	5
33	Copper plating on the polyimide film by electroless plating techniques for EMI shielding. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 7065-70	1.3	1
32	Magnetic property of Sm-Co nanoparticles prepared by solution phase metal salt reduction. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 7071-5	1.3	2

31	Solventless nanoparticles synthesis under low pressure. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 121-7	5.1	26
30	Characterization of the Spironaphthooxazine Doped Photochromic Glass: The Effect of Matrix Polarity and Pore Size. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 1140-1145	3.8	22
29	Copper Metallization on the Surface-Modified Polyimide Films by Electroless Plating Method. <i>Molecular Crystals and Liquid Crystals</i> , <b>2008</b> , 492, 275/[639]-282/[646]	0.5	1
28	PREPARATION OF ANTIBACTERIAL SILVER-CONTAINING SILICA NANOCOMPOSITE. <i>Surface Review and Letters</i> , <b>2008</b> , 15, 117-122	1.1	4
27	Synthesis and Characterization of Vitamin Encapsulated Mesoporous Silica with TEOS. <i>Journal of Nano Research</i> , <b>2008</b> , 3, 89-96	1	2
26	Study of the magnetic phase of Fe-Pt alloy nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 4666-9	1.3	1
25	Preparation and Characterization of Nd <sub>2</sub> Fe <sub>14</sub> B/Fe Nanocomposite Magnetic Material by Reduction Diffusion Process. <i>Molecular Crystals and Liquid Crystals</i> , <b>2007</b> , 464, 127/[709]-135/[717]	0.5	4
24	PREPARATION AND CHARACTERIZATION OF Ag(CORE)/SiO <sub>2</sub> (SHELL) NANOPARTICLES. <i>Surface Review and Letters</i> , <b>2007</b> , 14, 693-696	1.1	8
23	Exchange-Coupling Effect of Nd <sub>2</sub> Fe <sub>14</sub> B/FeCo Nanocomposite by Colloidal Method. <i>Molecular Crystals and Liquid Crystals</i> , <b>2007</b> , 464, 1/[583]-7/[589]	0.5	3
22	Superlattice of Ag Nanoparticles Prepared by New One-Step Synthetic Method in Aqueous Phase. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 5049-5051	9.6	23
21	Synthesis of Highly Magnetized Iron Nanoparticles by a Solventless Thermal Decomposition Method. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 6275-6280	3.8	55
20	Vast magnetic monolayer film with surfactant-stabilized Fe <sub>3</sub> O <sub>4</sub> nanoparticles using Langmuir-Blodgett technique. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 9288-93	3.4	58
19	Synthesis and Characterization of Antibacterial Ag/SiO <sub>2</sub> Nanocomposite. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3629-3635	3.8	255
18	Preparation for exchange-coupled permanent magnetic composite between Fe (soft) and Nd <sub>2</sub> Fe <sub>14</sub> B (hard). <i>Current Applied Physics</i> , <b>2007</b> , 7, 400-403	2.6	16
17	Preparation of magnetic FeCo nanoparticles by coprecipitation route. <i>Current Applied Physics</i> , <b>2007</b> , 7, 404-408	2.6	43
16	Preparation of aqueous dispersion of colloidal Fe nanoparticle by phase transfer. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 126, 221-225	8.5	6
15	Characterization and Magnetic Behavior of Fe and Nd/Fe Nanoparticles by Surfactant-Capped High-Energy Ball Mill. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 1219-1222	3.8	30
14	A Study on the Exchange-Coupling Effect of Nd <sub>2</sub> Fe <sub>14</sub> B/CoFe Forming Core/Shell Shape. <i>Molecular Crystals and Liquid Crystals</i> , <b>2007</b> , 472, 155/[545]-160/[550]	0.5	

13	Preparation and Antibiotic Property of Ag-SiO <sub>2</sub> Nanoparticle. <i>Molecular Crystals and Liquid Crystals</i> , <b>2007</b> , 464, 83/[665]-91/[673]	0.5	4
12	Preparation and Characterization of CuSiO <sub>2</sub> Nanocomposite. <i>Molecular Crystals and Liquid Crystals</i> , <b>2007</b> , 472, 217/[607]-223/[613]	0.5	1
11	The Synthesis and Characterization of SmCo Magnetic Nanoparticle by Thermal Decomposition. <i>Molecular Crystals and Liquid Crystals</i> , <b>2007</b> , 464, 39/[621]-49/[631]	0.5	1
10	Study on synthesis and magnetic properties of NdFeB alloy via reduction-diffusion process. <i>Physica Scripta</i> , <b>2007</b> , T129, 321-325	2.6	28
9	Preparation and Characterization of Soft Phase Magnetic Fe Nanoparticles by Different Methods. <i>Solid State Phenomena</i> , <b>2007</b> , 119, 151-154	0.4	
8	Synthesis and Characterization of Crystalline FeCo Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3417-3421	1.3	11
7	TREATMENT OF TiO <sub>2</sub> FOR THE SUPPRESSION OF PHOTO-CATALYTIC PROPERTY AND DISPERSION STABILITY. <i>International Journal of Nanoscience</i> , <b>2006</b> , 05, 795-801	0.6	2
6	Preparation and characterization of the antibacterial Cu nanoparticle formed on the surface of SiO <sub>2</sub> nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 24923-8	3.4	193
5	Synthesis and characterization of highly magnetized nanocrystalline Co(30)Fe(70) alloy by chemical reduction. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 24418-23	3.4	31
4	Synthesis of Fe Nanoparticles by Solventless Thermal Decomposition. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3412-3416	1.3	9
3	Synthesis and Characterization of Crystalline FeCo Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3417-3421	1.3	6
2	Synthesis of Fe Nanoparticles by Solventless Thermal Decomposition. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3412-3416	1.3	3
1	Synthesis of alpha-Fe nanoparticles by solventless thermal decomposition. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3412-6	1.3	1