

# Hyun Gil Cha

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2983229/hyun-gil-cha-publications-by-citations.pdf>

**Version:** 2024-04-27

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.

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	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
83	Combined biomass valorization and hydrogen production in a photoelectrochemical cell. <i>Nature Chemistry</i> , <b>2015</b> , 7, 328-33	17.6	366
82	Synthesis and Characterization of Antibacterial AgBiO <sub>2</sub> Nanocomposite. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3629-3635	3.8	255
81	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
80	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
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	Recent Advances in Sustainable Plastic Upcycling and Biopolymers. <i>Biotechnology Journal</i> , <b>2020</b> , 15, e1900489	19.6	51
71	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
70	Preparation and characterization of Fe <sub>2</sub> O <sub>3</sub> nanorod-thin film by metalorganic chemical vapor deposition. <i>Thin Solid Films</i> , <b>2009</b> , 517, 1853-1856	2.2	48
69	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
68	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

67	Preparation of magnetic FeCo nanoparticles by coprecipitation route. <i>Current Applied Physics</i> , <b>2007</b> , 7, 404-408	2.6	43
66	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
65	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
64	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
63	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
62	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
61	Characterization and Magnetic Behavior of Fe and NdFeB Nanoparticles by Surfactant-Capped High-Energy Ball Mill. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 1219-1222	3.8	30
60	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
59	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
58	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
57	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
56	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
55	Solventless nanoparticles synthesis under low pressure. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 121-7	5.1	26
54	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
53	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
52	Nonstop Monomer-to-Aramid Nanofiber Synthesis with Remarkable Reinforcement Ability. <i>Macromolecules</i> , <b>2019</b> , 52, 923-934	5.5	25
51	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
50	Photocatalysis: progress using manganese-doped hematite nanocrystals. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 4004	3.6	23

49	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
48	Characterization of the Spiroanthoquinone 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
47	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
46	One-dimensional ferromagnetic dendritic iron wire array growth by facile electrochemical deposition. <i>Nanoscale</i> , <b>2012</b> , 4, 1565-7	7.7	19
45	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
44	Manual assembly of nanocrystals for enhanced photoelectrochemical efficiency of hematite film. <i>Chemical Communications</i> , <b>2015</b> , 51, 6407-10	5.8	17
43	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
42	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
41	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
40	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
39	Synthesis and Characterization of Crystalline FeCo Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3417-3421	1.3	11
38	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
37	Deep eutectic solvent stabilised Co <sup>II</sup> films for electrocatalytic oxidation of 5-hydroxymethylfurfural into 2,5-furandicarboxylic acid. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 14239-14245	3.6	10
36	Hierarchical NiO hollow microspheres: electrochemical and magnetic properties. <i>RSC Advances</i> , <b>2012</b> , 2, 9786	3.7	9
35	Template assisted growth of cobalt ferrite nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 4942-7	1.3	9
34	Synthesis of Fe Nanoparticles by Solventless Thermal Decomposition. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3412-3416	1.3	9
33	Kinetics of decolorization of spiroanthoquinone-doped photochromic polymer films. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 12923-7	3.4	8
32	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

31	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
30	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
29	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
28	Preparation of aqueous dispersion of colloidal $\alpha$ -Fe nanoparticle by phase transfer. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 126, 221-225	8.5	6
27	Synthesis and Characterization of Crystalline FeCo Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3417-3421	1.3	6
26	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
25	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
24	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
23	PREPARATION OF ANTIBACTERIAL SILVER-CONTAINING SILICA NANOCOMPOSITE. <i>Surface Review and Letters</i> , <b>2008</b> , 15, 117-122	1.1	4
22	Preparation and Characterization of Nd <sub>2</sub> Fe <sub>14</sub> B/ $\alpha$ -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
21	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
20	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
19	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
18	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
17	Synthesis of $\alpha$ -Fe Nanoparticles by Solventless Thermal Decomposition. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3412-3416	1.3	3
16	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
15	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
14	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

13	Synthesis and Characterization of Vitamin Encapsulated Mesoporous Silica with TEOS. <i>Journal of Nano Research</i> , <b>2008</b> , 3, 89-96	1	2
12	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
11	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
10	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
9	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
8	Preparation and Characterization of CuBiO <sub>2</sub> Nanocomposite. <i>Molecular Crystals and Liquid Crystals</i> , <b>2007</b> , 472, 217/[607]-223/[613]	0.5	1
7	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
6	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
5	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	
4	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	
3	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	
2	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	
1	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	