

Nurul Hidayat

List of Publications by Year in descending order

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papers

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949033

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#	ARTICLE	IF	CITATIONS
1	Effects of the Annealing Temperature on the Structure Evolution and Antifungal Performance of TiO ₂ /Fe ₃ O ₄ Nanocomposites Manufactured from Natural Sand. Nano, 2021, 16, 2150017.	0.5	3
2	Integration of modern macromedia flash technology with Indonesian traditional game for interactive physics learning. AIP Conference Proceedings, 2021, , .	0.3	2
3	Exploring Guided Inquiry Learning with PhET Simulation to Train Junior High School Students Think Critically. Berkala Ilmiah Pendidikan Fisika, 2021, 9, 96.	0.3	3
4	Fabrication of New Fe ₃ O ₄ /PVA/(C ₆ H ₇ O ₆ Na) _n Nanohybrid Ferrogels for Antibacterial Applications. Materials Research, 2021, 24, .	0.6	6
5	Synthesis and characterization of nanosized titanomagnetite particles. Materials Today: Proceedings, 2021, 44, 3229-3232.	0.9	1
6	Hierarchical Structure and Magnetic Behavior of Zn-Doped Magnetite Aqueous Ferrofluids Prepared from Natural Sand for Antibacterial Agents. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20200774.	0.3	2
7	Excellent antimicrobial performance of co-doped magnetite double-layered ferrofluids fabricated from natural sand. Journal of King Saud University - Science, 2020, 32, 3032-3038.	1.6	8
8	Thermal cycling study of prospective fuel-cell sealants from silica-sand/alumina composites. AIP Conference Proceedings, 2020, , .	0.3	0
9	Amorphous-SiO ₂ nanoparticles for water treatment materials. AIP Conference Proceedings, 2020, , .	0.3	1
10	Fabrication of Mn ₁ Zn Fe ₂ O ₄ ferrofluids from natural sand for magnetic sensors and radar absorbing materials. Heliyon, 2020, 6, e04577.	1.4	12
11	Graphene from glucose coated silica sand for water purification applications. AIP Conference Proceedings, 2020, , .	0.3	2
12	Exploring magnetic properties and antimicrobial activities of Co _{0.4} Fe _{2.6} O ₄ ferrofluids using olive oil as dispersant agent. AIP Conference Proceedings, 2020, , .	0.3	2
13	Study of noncontact current sensor for brushless motor to enhance the unmanned aerial vehicle performance. AIP Conference Proceedings, 2020, , .	0.3	0
14	Synthesis of magnetite/silica nanocomposites from natural sand to create a drug delivery vehicle. Heliyon, 2020, 6, e03784.	1.4	47
15	Facile synthesis of γ -Fe ₂ O ₃ /TiO ₂ multiphase nanohybrid particles from local iron sand as antifungal agent. AIP Conference Proceedings, 2020, , .	0.3	2
16	Temperature effect on crystal structures, morphological shapes, and functional groups of zinc oxide. AIP Conference Proceedings, 2020, , .	0.3	3
17	Fabrication and characterization of silica/Fe _{2.18} Zn _{0.82} O ₄ nanocomposites. AIP Conference Proceedings, 2020, , .	0.3	0
18	Dependence of PEO content in the preparation of Fe ₃ O ₄ /PEO/TMAH ferrofluids and their antibacterial activity. Journal of Polymer Research, 2020, 27, 1.	1.2	14

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19	Real Time Measurement for Spring-Mass System: The Graphical and Mathematical Representations. Jurnal Penelitian Pendidikan IPA, 2020, 7, 74.	0.1	1
20	Effects of ZnO nanoparticles on the antifungal performance of Fe ₃ O ₄ /ZnO nanocomposites prepared from natural sand. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2020, 11, 045004.	0.7	5
21	Effects of DMSO Content on the Optical Properties, Liquid Stability, and Antimicrobial Activity of Fe ₃ O ₄ /OA/DMSO Ferrofluids. Nano, 2020, 15, 2050067.	0.5	7
22	Radar Absorption Performance of Fe ₃ O ₄ /AC/PANI Nanocomposites Prepared from Natural Iron Sand. International Journal of Engineering Transactions B: Applications, 2020, 33, .	0.6	1
23	Sistem Deteksi Kebocoran Gas Sederhana Berbasis Arduino Uno. Rekayasa, 2020, 13, 181-186.	0.1	1
24	Synthesis of Fe ₃ O ₄ /Ag nanohybrid ferrofluids and their applications as antimicrobial and antifibrotic agents. Heliyon, 2020, 6, e05813.	1.4	30
25	Magneto-Thermal Effect in Mn _{0.25} Fe _{2.75} O ₄ -PEG Nanoparticles and Their Potential as Hyperthermia Therapy. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012008.	0.3	3
26	Identification of Nanostructural and Specific Absorption Rate (SAR) on Mn _{0.25} Fe _{2.75} O ₄ /Ag Nanoparticle Composites. IOP Conference Series: Earth and Environmental Science, 2019, 276, 012062.	0.2	5
27	Structural and Magnetic Behaviours of Magnetite/Polyvinyl Alcohol Composite Nanofibers. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012081.	0.3	5
28	Temperature-Induced on the Phase Formation and Its Microstructure of LiNiPO ₄ /C Cathode Materials for Lithium-Ion Batteries. Materials Today: Proceedings, 2019, 13, 241-245.	0.9	1
29	Structural, Magnetic, Optical and Antibacterial Properties of Magnetite Ferrofluids with PEG-20000 Template. Materials Today: Proceedings, 2019, 17, 1728-1735.	0.9	4
30	Investigation of Structural and Antifungal Behaviors of Nano-Sized Anatase Titanium Dioxide Synthesized by Co-Precipitation Route. Materials Science Forum, 2019, 966, 181-188.	0.3	3
31	Sonochemical-Assisted Coprecipitation Synthesis of Body-Centered Tetragonal Mn ₃ O ₄ Spinel Nanostructures Using Polyethylene Glycol Template Agent. IOP Conference Series: Earth and Environmental Science, 2019, 276, 012058.	0.2	2
32	Preparation and Characterization of Magnetite Nanoparticles Combined with Polyaniline and Activated Carbon. IOP Conference Series: Earth and Environmental Science, 2019, 276, 012041.	0.2	8
33	Improved Solar Cell and Photoresponse Performance of CH ₃ NH ₃ PbI ₃ Perovskite with ZnO Nanorods. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012089.	0.3	4
34	Structural Characterizations of Magnetite/Zinc Oxide Nanocomposites Prepared by Co-precipitation Method. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012076.	0.3	3
35	Synthesis and Crystal Structure Analysis of LiNi ₅ xP _{1-x} O ₄ /C as a Cathode Material for the Lithium-ion Batteries Application. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012043.	0.3	4
36	Sonochemical Synthesis of Nano-Hydroxyapatite/Chitosan Biomaterial Composite from Shellfish and Their Characterizations. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012050.	0.3	3

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37	Effect of Stirring Duration on Hardness and Antibacterial Characteristics of Polyethylene Glycol-Hydroxyapatite Nanocomposites. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012073.	0.3	5
38	Crystal Structure Evolution of Magnetite Ferrofluids: Effect of Heating Treatment. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012004.	0.3	0
39	Solid-State Sintering Synthesis of Biphasic Calcium Phosphate/Alumina Ceramic Composites and Their Mechanical Behaviors. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012095.	0.3	2
40	Investigation of structural, magnetic and antibacterial activities of $\text{Cr}^{3+}/\text{Fe}^{3+}/\text{O}^{4-}$ ferrofluids. Molecular Crystals and Liquid Crystals, 2019, 694, 60-72.	0.4	7
41	Crystalline Phase Analysis and Thermal Expansion Coefficient Calculation of Quartz-Sand/Corundum Composites. Journal of Physics: Conference Series, 2018, 1093, 012041.	0.3	1
42	Preparation and Structural Characterization of Nanosized PVA/ Fe_3O_4 Fibers. Journal of Physics: Conference Series, 2018, 1093, 012040.	0.3	2
43	Synthesis and Characterization of $\hat{\text{I}}^3\text{-Al}_2\text{O}_3/\text{SiO}_2$ Composite Materials. Journal of Physics: Conference Series, 2018, 1093, 012015.	0.3	3
44	Antibacterial Characteristic of Impregnated-Activated-Zeolite/Alumina/Glass-Ionomer-Cement Composites. Journal of Physics: Conference Series, 2018, 1093, 012039.	0.3	0
45	Structural, Optical, and Antifungal Characters of Zinc Oxide Nanoparticles Prepared by Sol-gel Method. Journal of Physics: Conference Series, 2018, 1093, 012001.	0.3	20
46	Microstructure, Hardness, and Electrical Conductivity of $\hat{\text{I}}^2\text{-TCP/Zirconia}$ Composites Prepared from Eggshell. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012017.	0.3	0
47	Effect of Template on Structural and Band Gap Behaviors of Magnetite Nanoparticles. Journal of Physics: Conference Series, 2018, 1093, 012020.	0.3	8
48	Effect of Polyethylene Glycol (PEG) on Particle Distribution of $\text{Mn}_{0.25}\text{Fe}_{2.75}\text{O}_4\text{-PEG 6000}$ Nanoparticles. Journal of Physics: Conference Series, 2018, 1093, 012005.	0.3	1
49	The Effect of Sonication Duration on the Characteristics of Nano Hydroxyapatite-Silica (nHAp/SiO ₂) Composite and its Mechanical Properties. Journal of Physics: Conference Series, 2018, 1093, 012019.	0.3	3
50	Phase Transition of SiO_2 Nanoparticles Prepared from Natural Sand: The Calcination Temperature Effect. Journal of Physics: Conference Series, 2018, 1093, 012025.	0.3	8
51	The Influence of Chitosan Concentration on Synthesis of Hydroxyapatite Scaffold on Crystallinity and Surface Morphology. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012024.	0.3	4
52	Structural, Band Gap Energy, and Magnetic Characters of $\text{Fe}_{2.9}\text{Cr}_{0.1}\text{O}_4$ Nanoparticles for Preparing Ferrofluids. Journal of Physics: Conference Series, 2018, 1091, 012029.	0.3	0
53	Nanopowder and Magnetic Fluid Synthesis of $\text{Zn}_{0.2}\text{Fe}_{2.8}\text{O}_4$ Particles and Their Structural and Magnetic Behaviors. Journal of Physics: Conference Series, 2018, 1091, 012030.	0.3	1
54	Functional Group and Magnetic Properties of Fe_3O_4 Ferrofluids: The Impact of Dispersion Agent Composition. Journal of Physics: Conference Series, 2018, 1093, 012010.	0.3	13

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55	Growth of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite on Stainless Steel Substrate Layered by ZnO Nanoparticles Using One-Step Spin Coating Route. Journal of Physics: Conference Series, 2018, 1011, 012011.	0.3	3
56	Preparation, Structural and Dielectric Behaviors of $\text{Co}_x\text{Mn}_{1-x}\text{Mn}_2\text{O}_4$ (0 ≤ x ≤ 1) Nanoparticles. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012050.	0.3	2
57	Structure Analysis of $\text{Fe}_3\text{O}_4/\text{SiO}_2$ Core Shells Prepared from Amorphous and Crystalline SiO_2 Particles. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012010.	0.3	22
58	Combination of Coprecipitation and Sonochemical Methods in Synthesizing Spinel Hausmannite Nanomaterial. Jurnal Penelitian Fisika Dan Aplikasinya, 2018, 8, 1.	0.1	1
59	Preparation of Superparamagnetic Fe_3O_4 Nanoparticles from Iron Sand Mediated by Soft Template and Their Performance as Antibacterial Agent. Journal of Magnetism, 2018, 23, 337-344.	0.2	16
60	Analysis of Distribution of Polyvinyl Alcohol Hydrogel Nanocrystalline by using SAXS Synchrotron. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012041.	0.3	9
61	Solid State Reaction Synthesis of Si-HA as Potential Biomedical Material: An Endeavor to Enhance the Added Value of Indonesian Mineral Resources. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012021.	0.3	7
62	Studies on Nanostructure and Magnetic Behaviors of Mn-Doped Black Iron Oxide Magnetic Fluids Synthesized from Iron Sand. Nano, 2017, 12, 1750110.	0.5	35
63	Synthesis, Investigation on Structural and Magnetic Behaviors of Spinel M-Ferrite [M = Fe; Zn; Mn] Nanoparticles from Iron Sand. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012052.	0.3	20
64	Fabrication of Magnetite Nanoparticles Dispersed in Olive Oil and Their Structural and Magnetic Investigations. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012008.	0.3	13
65	Preparation of Superparamagnetic $\text{Zn}_{0.5}\text{Mn}_{0.5}\text{Fe}_2\text{O}_4$ Particle by Coprecipitation-Sonochemical Method for Radar Absorbing Material. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012024.	0.3	4
66	Noninvasive and Painless Urine Glucose Detection by Using Computer-based Polarimeter. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012030.	0.3	7
67	Optical Properties of Fe_3O_4 Magnetic Fluid from Iron Sand. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012054.	0.3	4
68	Natural Silica Sand/Alumina Ceramic Composites: Promising Candidates for Fuel-Cell Sealants. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012060.	0.3	5
69	The Role of Fe_2O_3 and Light Induced on Dielectric Properties of Borosilicate Glass. Journal of Physics: Conference Series, 2017, 846, 012007.	0.3	1
70	Aging Time Effect on Porous Characteristics of Natural Mud-based Silica Prepared by Hydrothermal-Coprecipitation Route. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012022.	0.3	1
71	Thermal expansion coefficient prediction of fuel-cell seal materials from silica sand. , 2013, , .		8
72	Study of Nano-Hydroxyapatite:Poly Lactide Acid (n-HA:PLA) Composites and Their Biocompatibility, Bioactivity, and Biodegradability Characteristics. IOP Conference Series: Materials Science and Engineering, 0, 515, 012034.	0.3	5

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73	Magnesiothermic Reduction Synthesis of Silicon Carbide with Varying Temperatures: Structural and Mechanical Features. IOP Conference Series: Materials Science and Engineering, 0, 515, 012079.	0.3	5
74	Exploring Structural Properties of Cobalt Ferrite Nanoparticles from Natural Sand. IOP Conference Series: Materials Science and Engineering, 0, 515, 012047.	0.3	18
75	Synthesis, Structural and Toxicity Characters of Nano-sized Titanium Dioxide/Magnetite Nanoparticles. IOP Conference Series: Materials Science and Engineering, 0, 515, 012057.	0.3	1
76	<i>In-situ</i> High-Resolution Transmission Electron Microscopy and X-ray Diffraction Studies on Nanostructured SiC and Its Promising Feature for Photocatalytic Hydrogen Production. IOP Conference Series: Materials Science and Engineering, 0, 515, 012012.	0.3	5
77	Preparation of $\text{Fe}_3\text{O}_4/\text{OA}/\text{DMSO}$ Ferrofluids using a Double Surfactant System as Antifungal Materials Candidate. IOP Conference Series: Materials Science and Engineering, 0, 515, 012029.	0.3	10
78	The Low Concentration of Sodium Hydroxide Influence on The Compressive Strength of Fly Ash/Natural Kaolin-Based Geopolymer. IOP Conference Series: Materials Science and Engineering, 0, 515, 012063.	0.3	7
79	Effect of Polyaniline on Structural and Optical Characteristics of Fe_3O_4 and TiO_2 Nanoparticles. Key Engineering Materials, 0, 851, 9-15.	0.4	2