

Nurul Hidayat

List of Publications by Year in descending order

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papers

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79
docs citations

79
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of magnetite/silica nanocomposites from natural sand to create a drug delivery vehicle. Heliyon, 2020, 6, e03784.	3.2	47
2	Studies on Nanostructure and Magnetic Behaviors of Mn-Doped Black Iron Oxide Magnetic Fluids Synthesized from Iron Sand. Nano, 2017, 12, 1750110.	1.0	35
3	Synthesis of Fe ₃ O ₄ /Ag nanohybrid ferrofluids and their applications as antimicrobial and antifibrotic agents. Heliyon, 2020, 6, e05813.	3.2	30
4	Structure Analysis of Fe ₃ O ₄ @SiO ₂ Core Shells Prepared from Amorphous and Crystalline SiO ₂ Particles. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012010.	0.6	22
5	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.	0.6	20
6	Structural, Optical, and Antifungal Characters of Zinc Oxide Nanoparticles Prepared by Sol-gel Method. Journal of Physics: Conference Series, 2018, 1093, 012001.	0.4	20
7	Exploring Structural Properties of Cobalt Ferrite Nanoparticles from Natural Sand. IOP Conference Series: Materials Science and Engineering, 0, 515, 012047.	0.6	18
8	Preparation of Superparamagnetic Fe ₃ O ₄ Nanoparticles from Iron Sand Mediated by Soft Template and Their Performance as Antibacterial Agent. Journal of Magnetism, 2018, 23, 337-344.	0.4	16
9	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.	2.4	14
10	Fabrication of Magnetite Nanoparticles Dispersed in Olive Oil and Their Structural and Magnetic Investigations. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012008.	0.6	13
11	Functional Group and Magnetic Properties of Fe ₃ O ₄ Ferrofluids: The Impact of Dispersion Agent Composition. Journal of Physics: Conference Series, 2018, 1093, 012010.	0.4	13
12	Fabrication of Mn ₁ Zn ₁ Fe ₂ O ₄ ferrofluids from natural sand for magnetic sensors and radar absorbing materials. Heliyon, 2020, 6, e04577.	3.2	12
13	Preparation of Fe ₃ O ₄ /OA/DMSO Ferrofluids using a Double Surfactant System as Antifungal Materials Candidate. IOP Conference Series: Materials Science and Engineering, 0, 515, 012029.	0.6	10
14	Analysis of Distribution of Polyvinyl Alcohol Hydrogel Nanocrystalline by using SAXS Synchrotron. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012041.	0.6	9
15	Thermal expansion coefficient prediction of fuel-cell seal materials from silica sand. , 2013, , .		8
16	Effect of Template on Structural and Band Gap Behaviors of Magnetite Nanoparticles. Journal of Physics: Conference Series, 2018, 1093, 012020.	0.4	8
17	Phase Transition of SiO ₂ Nanoparticles Prepared from Natural Sand: The Calcination Temperature Effect. Journal of Physics: Conference Series, 2018, 1093, 012025.	0.4	8
18	Preparation and Characterization of Magnetite Nanoparticles Combined with Polyaniline and Activated Carbon. IOP Conference Series: Earth and Environmental Science, 2019, 276, 012041.	0.3	8

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19	Excellent antimicrobial performance of co-doped magnetite double-layered ferrofluids fabricated from natural sand. Journal of King Saud University - Science, 2020, 32, 3032-3038.	3.5	8
20	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.	0.6	7
21	Noninvasive and Painless Urine Glucose Detection by Using Computer-based Polarimeter. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012030.	0.6	7
22	Investigation of structural, magnetic and antibacterial activities of $\text{Cr}_x\text{Fe}_{3-3x}\text{O}_4$ ferrofluids. Molecular Crystals and Liquid Crystals, 2019, 694, 60-72.	0.9	7
23	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.	0.6	7
24	Effects of DMSO Content on the Optical Properties, Liquid Stability, and Antimicrobial Activity of $\text{Fe}_3\text{O}_4/\text{OA}/\text{DMSO}$ Ferrofluids. Nano, 2020, 15, 2050067.	1.0	7
25	Fabrication of New $\text{Fe}_3\text{O}_4/\text{PVA}/(\text{C}_6\text{H}_7\text{O}_6\text{Na})_n$ Nanohybrid Ferrogels for Antibacterial Applications. Materials Research, 2021, 24, .	1.3	6
26	Natural Silica Sand/Alumina Ceramic Composites: Promising Candidates for Fuel-Cell Sealants. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012060.	0.6	5
27	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.	0.6	5
28	Magnesiothermic Reduction Synthesis of Silicon Carbide with Varying Temperatures: Structural and Mechanical Features. IOP Conference Series: Materials Science and Engineering, 0, 515, 012079.	0.6	5
29	Identification of Nanostructural and Specific Absorption Rate (SAR) on $\text{Mn}_{0.25}\text{Fe}_{2.75}\text{O}_4/\text{Ag}$ Nanoparticle Composites. IOP Conference Series: Earth and Environmental Science, 2019, 276, 012062.	0.3	5
30	Structural and Magnetic Behaviours of Magnetite/Polyvinyl Alcohol Composite Nanofibers. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012081.	0.6	5
31	Effect of Stirring Duration on Hardness and Antibacterial Characteristics of Polyethylene Glycol-Hydroxyapatite Nanocomposites. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012073.	0.6	5
32	<i>In-situ</i> High-Resolution Transmission Electron Microscopy and X-ray Diffraction Studies on Nanostructured $\text{I}^2\text{-SiC}$ and Its Promising Feature for Photocatalytic Hydrogen Production. IOP Conference Series: Materials Science and Engineering, 0, 515, 012012.	0.6	5
33	Effects of ZnO nanoparticles on the antifungal performance of $\text{Fe}_3\text{O}_4/\text{ZnO}$ nanocomposites prepared from natural sand. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2020, 11, 045004.	1.5	5
34	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.	0.6	4
35	Optical Properties of Fe_3O_4 Magnetic Fluid from Iron Sand. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012054.	0.6	4
36	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.	0.6	4

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37	Structural, Magnetic, Optical and Antibacterial Properties of Magnetite Ferrofluids with PEG-20000 Template. <i>Materials Today: Proceedings</i> , 2019, 17, 1728-1735.	1.8	4
38	Improved Solar Cell and Photoresponse Performance of CH ₃ NH ₃ PbI ₃ Perovskite with ZnO Nanorods. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 515, 012089.	0.6	4
39	Synthesis and Crystal Structure Analysis of LiNi _{0.5} Co _{0.5} P _{1-x} O ₄ /C as a Cathode Material for the Lithium-ion Batteries Application. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 515, 012043.	0.6	4
40	Synthesis and Characterization of $\text{Al}_2\text{O}_3/\text{SiO}_2$ Composite Materials. <i>Journal of Physics: Conference Series</i> , 2018, 1093, 012015.	0.4	3
41	The Effect of Sonication Duration on the Characteristics of Nano Hydroxyapatite-Silica (nHAp/SiO ₂) Composite and its Mechanical Properties. <i>Journal of Physics: Conference Series</i> , 2018, 1093, 012019.	0.4	3
42	Growth of CH ₃ NH ₃ PbI ₃ Perovskite on Stainless Steel Substrate Layered by ZnO Nanoparticles Using One-Step Spin Coating Route. <i>Journal of Physics: Conference Series</i> , 2018, 1011, 012011.	0.4	3
43	Magneto-Thermal Effect in Mn _{0.25} Fe _{2.75} O ₄ -PEG Nanoparticles and Their Potential as Hyperthermia Therapy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 515, 012008.	0.6	3
44	Investigation of Structural and Antifungal Behaviors of Nano-Sized Anatase Titanium Dioxide Synthesized by Co-Precipitation Route. <i>Materials Science Forum</i> , 2019, 966, 181-188.	0.3	3
45	Structural Characterizations of Magnetite/Zinc Oxide Nanocomposites Prepared by Co-precipitation Method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 515, 012076.	0.6	3
46	Sonochemical Synthesis of Nano-Hydroxyapatite/Chitosan Biomaterial Composite from Shellfish and Their Characterizations. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 515, 012050.	0.6	3
47	Temperature effect on crystal structures, morphological shapes, and functional groups of zinc oxide. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
48	Effects of the Annealing Temperature on the Structure Evolution and Antifungal Performance of TiO ₂ /Fe ₃ O ₄ Nanocomposites Manufactured from Natural Sand. <i>Nano</i> , 2021, 16, 2150017.	1.0	3
49	Exploring Guided Inquiry Learning with PhET Simulation to Train Junior High School Students Think Critically. <i>Berkala Ilmiah Pendidikan Fisika</i> , 2021, 9, 96.	0.1	3
50	Preparation and Structural Characterization of Nanosized PVA/Fe ₃ O ₄ Fibers. <i>Journal of Physics: Conference Series</i> , 2018, 1093, 012040.	0.4	2
51	Preparation, Structural and Dielectric Behaviors of Co _x Mn _{1-x} Mn ₂ O ₄ (0 ≤ x ≤ 1) Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 367, 012050.	0.6	2
52	Sonochemical-Assisted Coprecipitation Synthesis of Body-Centered Tetragonal Mn ₃ O ₄ Spinel Nanostructures Using Polyethylene Glycol Template Agent. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 276, 012058.	0.3	2
53	Solid-State Sintering Synthesis of Biphasic Calcium Phosphate/Alumina Ceramic Composites and Their Mechanical Behaviors. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 515, 012095.	0.6	2
54	Effect of Polyaniline on Structural and Optical Characteristics of Fe ₃ O ₄ and TiO ₂ Nanoparticles. <i>Key Engineering Materials</i> , 0, 851, 9-15.	0.4	2

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55	Graphene from glucose coated silica sand for water purification applications. AIP Conference Proceedings, 2020, , .	0.4	2
56	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, , .	0.4	2
57	Facile synthesis of $\hat{\pm}$ -Fe ₂ O ₃ /TiO ₂ multiphase nanohybrid particles from local iron sand as antifungal agent. AIP Conference Proceedings, 2020, , .	0.4	2
58	Integration of modern macromedia flash technology with Indonesian traditional game for interactive physics learning. AIP Conference Proceedings, 2021, , .	0.4	2
59	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.	0.8	2
60	The Role of Fe ₂ O ₃ and Light Induced on Dielectric Properties of Borosilicate Glass. Journal of Physics: Conference Series, 2017, 846, 012007.	0.4	1
61	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.	0.6	1
62	Crystalline Phase Analysis and Thermal Expansion Coefficient Calculation of Quartz-Sand/Corundum Composites. Journal of Physics: Conference Series, 2018, 1093, 012041.	0.4	1
63	Effect of Polyethylene Glycol (PEG) on Particle Distribution of Mn _{0.25} Fe _{2.75} O ₄ -PEG 6000 Nanoparticles. Journal of Physics: Conference Series, 2018, 1093, 012005.	0.4	1
64	Nanopowder and Magnetic Fluid Synthesis of Zn _{0.2} Fe _{2.8} O ₄ Particles and Their Structural and Magnetic Behaviors. Journal of Physics: Conference Series, 2018, 1091, 012030.	0.4	1
65	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.	1.8	1
66	Synthesis, Structural and Toxicity Characters of Nano-sized Titanium Dioxide/Magnetite Nanoparticles. IOP Conference Series: Materials Science and Engineering, 0, 515, 012057.	0.6	1
67	Amorphous-SiO ₂ nanoparticles for water treatment materials. AIP Conference Proceedings, 2020, , .	0.4	1
68	Real Time Measurement for Spring-Mass System: The Graphical and Mathematical Representations. Jurnal Penelitian Pendidikan IPA, 2020, 7, 74.	0.3	1
69	Synthesis and characterization of nanosized titanomagnetite particles. Materials Today: Proceedings, 2021, 44, 3229-3232.	1.8	1
70	Combination of Coprecipitation and Sonochemical Methods in Synthesizing Spinel Hausmannite Nanomaterial. Jurnal Penelitian Fisika Dan Aplikasinya, 2018, 8, 1.	0.3	1
71	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, .	0.5	1
72	Sistem Deteksi Kebocoran Gas Sederhana Berbasis Arduino Uno. Rekayasa, 2020, 13, 181-186.	0.1	1

#	ARTICLE	IF	CITATIONS
73	Antibacterial Characteristic of Impregnated-Activated-Zeolite/Alumina/Glass-Ionomer-Cement Composites. Journal of Physics: Conference Series, 2018, 1093, 012039.	0.4	0
74	Microstructure, Hardness, and Electrical Conductivity of \hat{I}^2 -TCP/Zirconia Composites Prepared from Eggshell. IOP Conference Series: Materials Science and Engineering, 2018, 367, 012017.	0.6	0
75	Structural, Band Gap Energy, and Magnetic Characters of $Fe_{2.9}Cr_{0.1}O_4$ Nanoparticles for Preparing Ferrofluids. Journal of Physics: Conference Series, 2018, 1091, 012029.	0.4	0
76	Crystal Structure Evolution of Magnetite Ferrofluids: Effect of Heating Treatment. IOP Conference Series: Materials Science and Engineering, 2019, 515, 012004.	0.6	0
77	Thermal cycling study of prospective fuel-cell sealants from silica-sand/alumina composites. AIP Conference Proceedings, 2020, , .	0.4	0
78	Study of noncontact current sensor for brushless motor to enhance the unmanned aerial vehicle performance. AIP Conference Proceedings, 2020, , .	0.4	0
79	Fabrication and characterization of silica/ $Fe_{2.18}Zn_{0.82}O_4$ nanocomposites. AIP Conference Proceedings, 2020, , .	0.4	0