# Magdiel Inggrid Setyawati

List of Publications by Year
in descending order



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|---|---|---|---|
| 66 papers | 6,403 citations | 81743 39 h-index | 102304 66 g-index |
| 67 all docs | 67 docs citations | 67 times ranked | 8863 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Antimicrobial silver nanomaterials. Coordination Chemistry Reviews, 2018, 357, 1-17. | 9.5 | 499 |
| 2 | Antimicrobial Gold Nanoclusters. ACS Nano, 2017, 11, 6904-6910. | 7.3 | 469 |
| 3 | Titanium dioxide nanomaterials cause endothelial cell leakiness by disrupting the homophilic interaction of VEâ€“cadherin. Nature Communications, 2013, 4, 1673. | 5.8 | 401 |
| 4 | Nanoparticles promote in vivo breast cancer cell intravasation and extravasation by inducing endothelial leakiness. Nature Nanotechnology, 2019, 14, 279-286. | 15.6 | 367 |
| 5 | Antimicrobial Cluster Bombs: Silver Nanoclusters Packed with Daptomycin. ACS Nano, 2016, 10, 7934-7942. | 7.3 | 304 |
| 6 | Understanding and exploiting nanoparticles' intimacy with the blood vessel and blood. Chemical Society Reviews, 2015, 44, 8174-8199. | 18.7 | 268 |
| 7 | Highly luminescent silver nanoclusters with tunable emissions: cyclic reductionâ€“decomposition synthesis and antimicrobial properties. NPG Asia Materials, 2013, 5, e39-e39. | 3.8 | 237 |
| 8 | Directing Assembly and Disassembly of 2D MoS<sub>2</sub> Nanosheets with DNA for Drug Delivery. ACS Applied Materials & Interfaces, 2017, 9, 15286-15296. | 4.0 | 232 |
| 9 | Gold Nanoparticles Induced Endothelial Leakiness Depends on Particle Size and Endothelial Cell Origin. ACS Nano, 2017, 11, 5020-5030. | 7.3 | 218 |
| 10 | Back to Basics: Exploiting the Innate Physicoâ€chemical Characteristics of Nanomaterials for Biomedical Applications. Advanced Functional Materials, 2014, 24, 5936-5955. | 7.8 | 192 |
| 11 | Nanoparticles Strengthen Intracellular Tension and Retard Cellular Migration. Nano Letters, 2014, 14, 83-88. | 4.5 | 191 |
| 12 | The role of the tumor suppressor p53 pathway in the cellular DNA damage response to zinc oxide nanoparticles. Biomaterials, 2011, 32, 8218-8225. | 5.7 | 185 |
| 13 | The influence of lysosomal stability of silver nanomaterials on their toxicity to human cells. Biomaterials, 2014, 35, 6707-6715. | 5.7 | 158 |
| 14 | Effect of zinc oxide nanomaterials-induced oxidative stress on the p53 pathway. Biomaterials, 2013, 34, 10133-10142. | 5.7 | 141 |
| 15 | Ultrasmall Ag+-rich nanoclusters as highly efficient nanoreservoirs for bacterial killing. Nano Research, 2014, 7, 301-307. | 5.8 | 139 |
| 16 | Nanoparticle Density: A Critical Biophysical Regulator of Endothelial Permeability. ACS Nano, 2017, 11, 2764-2772. | 7.3 | 133 |
| 17 | Tuning Endothelial Permeability with Functionalized Nanodiamonds. ACS Nano, 2016, 10, 1170-1181. | 7.3 | 129 |
| 18 | Mechanistic Investigation of the Biological Effects of SiO<sub>2</sub>, TiO<sub>2</sub>, and ZnO Nanoparticles on Intestinal Cells. Small, 2015, 11, 3458-3468. | 5.2 | 125 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Surface Ligand Chemistry of Gold Nanoclusters Determines Their Antimicrobial Ability. Chemistry of Materials, 2018, 30, 2800-2808. | 3.2 | 115 |
| 20 | Novel Theranostic DNA Nanoscaffolds for the Simultaneous Detection and Killing of Escherichia coli and Staphylococcus aureus. ACS Applied Materials & Interfaces, 2014, 6, 21822-21831. | 4.0 | 107 |
| 21 | Biomimicry 3D Gastrointestinal Spheroid Platform for the Assessment of Toxicity and Inflammatory Effects of Zinc Oxide Nanoparticles. Small, 2015, 11, 702-712. | 5.2 | 98 |
| 22 | DNA Nanostructures Carrying Stoichiometrically Definable Antibodies. Small, 2016, 12, 5601-5611. | 5.2 | 97 |
| 23 | Tuning the Activity of Platinum(IV) Anticancer Complexes through Asymmetric Acylation. Journal of Medicinal Chemistry, 2012, 55, 7571-7582. | 2.9 | 92 |
| 24 | Presentation matters: Identity of gold nanocluster capping agent governs intracellular uptake and cell metabolism. Nano Research, 2014, 7, 805-815. | 5.8 | 88 |
| 25 | Nano-hydroxyapatite and Nano-titanium Dioxide Exhibit Different Subcellular Distribution and Apoptotic Profile in Human Oral Epithelium. ACS Applied Materials & Interfaces, 2014, 6, 6248-6256. | 4.0 | 87 |
| 26 | Inhaled nanomaterials and the respiratory microbiome: clinical, immunological and toxicological perspectives. Particle and Fibre Toxicology, 2018, 15, 46. | 2.8 | 84 |
| 27 | InÂvivo and exÂvivo proofs of concept that cetuximab conjugated vitamin E TPGS micelles increases efficacy of delivered docetaxel against triple negative breast cancer. Biomaterials, 2015, 63, 58-69. | 5.7 | 82 |
| 28 | Emerging 0D Transitionâ€Metal Dichalcogenides for Sensors, Biomedicine, and Clean Energy. Small, 2017, 13, 1700527. | 5.2 | 81 |
| 29 | Electrochemical Quantification of Escherichia coli with DNA Nanostructure. Advanced Functional Materials, 2015, 25, 3840-3846. | 7.8 | 72 |
| 30 | Cytotoxic and genotoxic characterization of titanium dioxide, gadolinium oxide, and poly(lacticâ€coâ€glycolic acid) nanoparticles in human fibroblasts. Journal of Biomedical Materials Research - Part A, 2013, 101A, 633-640. | 2.1 | 68 |
| 31 | Protecting microRNAs from RNase degradation with steric DNA nanostructures. Chemical Science, 2017, 8, 1062-1067. | 3.7 | 65 |
| 32 | Composite Hydrogels in Three-Dimensional in vitro Models. Frontiers in Bioengineering and Biotechnology, 2020, 8, 611. | 2.0 | 62 |
| 33 | Overcoming bacterial physical defenses with molecule-like ultrasmall antimicrobial gold nanoclusters. Bioactive Materials, 2021, 6, 941-950. | 8.6 | 60 |
| 34 | Mesoporous Silica Nanoparticles as an Antitumoral-Angiogenesis Strategy. ACS Applied Materials & Interfaces, 2017, 9, 6690-6703. | 4.0 | 55 |
| 35 | Toxicity profiling of water contextual zinc oxide, silver, and titanium dioxide nanoparticles in human oral and gastrointestinal cell systems. Environmental Toxicology, 2015, 30, 1459-1469. | 2.1 | 54 |
| 36 | Nanoâ€TiO<sub>2</sub> Drives Epithelialâ€“Mesenchymal Transition in Intestinal Epithelial Cancer Cells. Small, 2018, 14, e1800922. | 5.2 | 53 |

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|---|---|---|---|
| 37 | Membrane lipid composition and stress/virulence related gene expression of Salmonella Enteritidis cells adapted to lactic acid and trisodium phosphate and their resistance to lethal heat and acid stress. International Journal of Food Microbiology, 2014, 191, 24-31. | 2.1 | 49 |
| 38 | Nanotoxicology of common metal oxide based nanomaterials: their ROSâ€y and nonâ€ROSâ€y consequences. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 205-217. | 0.8 | 41 |
| 39 | â€œNaked-eyeâ€•recognition: Emerging gold nano-family for visual sensing. Applied Materials Today, 2018, 11, 166-188. | 2.3 | 41 |
| 40 | Inorganic Nanomaterials as Highly Efficient Inhibitors of Cellular Hepatic Fibrosis. ACS Applied Materials & Interfaces, 2018, 10, 31938-31946. | 4.0 | 40 |
| 41 | Observing antimicrobial process with traceable gold nanoclusters. Nano Research, 2021, 14, 1026-1033. | 5.8 | 40 |
| 42 | Angiopoietin-1 accelerates restoration of endothelial cell barrier integrity from nanoparticle-induced leakiness. Nanotoxicology, 2019, 13, 682-700. | 1.6 | 39 |
| 43 | Occupational Inhalation Exposures to Nanoparticles at Six Singapore Printing Centers. Environmental Science & Technology, 2020, 54, 2389-2400. | 4.6 | 36 |
| 44 | Reciprocal Response of Human Oral Epithelial Cells to Internalized Silica Nanoparticles. Particle and Particle Systems Characterization, 2013, 30, 784-793. | 1.2 | 34 |
| 45 | Phage Based Green Chemistry for Gold Ion Reduction and Gold Retrieval. ACS Applied Materials & Interfaces, 2014, 6, 910-917. | 4.0 | 34 |
| 46 | Transformation of Nanomaterials and Its Implications in Gut Nanotoxicology. Small, 2020, 16, e2001246. | 5.2 | 28 |
| 47 | Decoupling the Direct and Indirect Biological Effects of ZnO Nanoparticles Using a Communicative Dual Cellâ€Type Tissue Construct. Small, 2016, 12, 647-657. | 5.2 | 27 |
| 48 | Expressing Vitreoscilla hemoglobin in statically cultured Acetobacter xylinum with reduced O2 tension maximizes bacterial cellulose pellicle production. Journal of Biotechnology, 2007, 132, 38-43. | 1.9 | 22 |
| 49 | Self-immobilized recombinant Acetobacter xylinum for biotransformation. Biochemical Engineering Journal, 2009, 43, 78-84. | 1.8 | 21 |
| 50 | The gap between endothelial cells: key to the quick escape of nanomaterials?. Nanomedicine, 2014, 9, 1591-1594. | 1.7 | 20 |
| 51 | Biomolecular interaction and kinematics differences between P25 and E171 TiO2 nanoparticles. NanoImpact, 2018, 12, 51-57. | 2.4 | 16 |
| 52 | Exploiting cancer's antioxidative weakness through p53 with nanotoxicology. Nanomedicine, 2014, 9, 369-371. | 1.7 | 15 |
| 53 | Inflammation Increases Susceptibility of Human Small Airway Epithelial Cells to Pneumonic Nanotoxicity. Small, 2020, 16, 2000963. | 5.2 | 15 |
| 54 | Characterization of Anisotropic Human Hair Keratin Scaffolds Fabricated via Directed Ice Templating. Macromolecular Bioscience, 2021, 21, e2000314. | 2.1 | 15 |

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|---|---|---|---|
| 55 | Chronic upper airway and systemic inflammation from copier emitted particles in healthy operators at six Singaporean workplaces. NanoImpact, 2021, 22, 100325. | 2.4 | 10 |
| 56 | Particulate matter from indoor environments of classroom induced higher cytotoxicity and leakiness in human microvascular endothelial cells in comparison with those collected from corridor. Indoor Air, 2017, 27, 551-563. | 2.0 | 8 |
| 57 | Pilot deep RNA sequencing of worker blood samples from Singapore printing industry for occupational risk assessment. NanoImpact, 2020, 19, 100248. | 2.4 | 8 |
| 58 | Self-Assembly of Solubilized Human Hair Keratins. ACS Biomaterials Science and Engineering, 2021, 7, 83-89. | 2.6 | 7 |
| 59 | Printer center nanoparticles alter the DNA repair capacity of human bronchial airway epithelial cells. NanoImpact, 2022, 25, 100379. | 2.4 | 6 |
| 60 | Association of nanoparticle exposure with serum metabolic disorders of healthy adults in printing centers. Journal of Hazardous Materials, 2022, 432, 128710. | 6.5 | 6 |
| 61 | Nanotoxicity: Mechanistic Investigation of the Biological Effects of SiO<sub>2</sub>, TiO<sub>2</sub>, and ZnO Nanoparticles on Intestinal Cells (Small 28/2015). Small, 2015, 11, 3390-3390. | 5.2 | 4 |
| 62 | Anisotropic hair keratinâ€dopamine composite scaffolds exhibit strainâ€stiffening properties. Journal of Biomedical Materials Research - Part A, 2022, 110, 92-104. | 2.1 | 4 |
| 63 | Nanomedicine: Back to Basics: Exploiting the Innate Physicoâ€chemical Characteristics of Nanomaterials for Biomedical Applications (Adv. Funct. Mater. 38/2014). Advanced Functional Materials, 2014, 24, 5930-5930. | 7.8 | 2 |
| 64 | Nanotoxicity: Biomimicry 3D Gastrointestinal Spheroid Platform for the Assessment of Toxicity and Inflammatory Effects of Zinc Oxide Nanoparticles (Small 6/2015). Small, 2015, 11, 760-760. | 5.2 | 2 |
| 65 | A high-throughput method to characterize the gut bacteria growth upon engineered nanomaterial treatment. Environmental Science: Nano, 2020, 7, 3155-3166. | 2.2 | 2 |
| 66 | Biosensors: Electrochemical Quantification of Escherichia coli with DNA Nanostructure (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 7.8 | 1 |