

# Mehmet GÃ¼lcan

## List of Publications by Year in descending order

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64  
papers

1,907  
citations

304743

22  
h-index

265206

42  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2089  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Characterization and antioxidant-antimicrobial activity of silver nanoparticles synthesized using Punica granatum extract. International Journal of Environmental Science and Technology, 2022, 19, 2781-2788.  | 3.5 | 14        |
| 2  | Fabrication and characterization of copper nanoparticles anchored on sulfonated reduced graphene oxide as effective catalyst for the reduction of Thioflavine-T cationic dye in aqueous medium. Materials Chemistry and Physics, 2022, 275, 125212.   | 4.0 | 6         |
| 3  | Improved efficiency in dye sensitized solar cell (DSSC) by <i>nano</i> -MIL-101(Cr) impregnated photoanode. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2022, 77, 93-104.  | 1.5 | 4         |
| 4  | Comparative of MIL101(Cr) and <i>nano</i> -MIL101(Cr) Electrode as an Electrochemical Hydrogen Peroxide Sensor. Electroanalysis, 2022, 34, 1598-1609.   | 2.9 | 2         |
| 5  | Green and efficient oxidative desulfurization of refractory S-compounds from liquid fuels catalyzed by chromium-based MIL-101 stabilized MoOx catalyst. Molecular Catalysis, 2022, 522, 112249.   | 2.0 | 3         |
| 6  | Rh (0) nanoparticles impregnated on <i>two-dimensional</i> transition metal carbides, <i>MXene</i> , as an effective nanocatalyst for ammonia-borane hydrolysis. International Journal of Energy Research, 2022, 46, 11411-11423.   | 4.5 | 16        |
| 7  | Preparation and characterization of amine-terminated delafossite type oxide, CuMnO <sub>2</sub> -NH <sub>2</sub> , supported Pd (0) nanoparticles for the H <sub>2</sub> generation from the methanolysis of ammonia-borane. International Journal of Hydrogen Energy, 2022, 47, 16036-16046. | 7.1 | 12        |
| 8  | Manganese oxide octahedral molecular sieves stabilized Rh nanoparticles for the hydrogen production from the ethylenediamine-bisborane hydrolysis. International Journal of Hydrogen Energy, 2022, 47, 16494-16506.   | 7.1 | 6         |
| 9  | Enhancement in the photovoltaic efficiency of dye-sensitized solar cell by doping TiO <sub>2</sub> with MIL-101 MOF structure. Materials Science in Semiconductor Processing, 2022, 150, 106951.  | 4.0 | 6         |
| 10 | Synthesis and characterization of UTSA-76 metal organic framework containing Lewis basic sites for the liquid-phase adsorption of UVI. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 609, 125663.   | 4.7 | 8         |
| 11 | Biocatalysis: Fundamentals and solvent parameters. , 2021, , 73-84.   |     | 0         |
| 12 | Hydrogen generation by hydrolysis of NaBH <sub>4</sub> using nanocomposites. , 2021, , 231-248.   |     | 1         |
| 13 | Highly efficient and selective one-pot tandem imine synthesis via amine-alcohol cross-coupling reaction catalysed by chromium-based MIL-101 supported Au nanoparticles. Molecular Catalysis, 2021, 501, 111363.   | 2.0 | 12        |
| 14 | Green synthesis of palladium nanoparticles: Preparation, characterization, and investigation of antioxidant, antimicrobial, anticancer, and DNA cleavage activities. Applied Organometallic Chemistry, 2021, 35, e6272.   | 3.5 | 52        |
| 15 | H <sub>2</sub> production from the hydrolytic dehydrogenation of methylamine-borane catalyzed by sulfonated reduced graphene oxide-aided synthesis of ruthenium nanoparticles. International Journal of Hydrogen Energy, 2021, 46, 32523-32535.   | 7.1 | 10        |
| 16 | Magnetic nanoparticles. , 2021, , 197-236.  |     | 6         |
| 17 | Carbon-based nanostructures and nanomaterials. , 2021, , 103-130.   |     | 1         |
| 18 | Polymer-based nanomaterials to use in hydrogen acquisition and hydrogen energy storage. , 2021, , 153-186.  |     | 3         |

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|----|---|------|-----------|
| 19 | Synthesis and characterization of Reishi mushroom-mediated green synthesis of silver nanoparticles for the biochemical applications. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 178, 112970.  | 2.8  | 129       |
| 20 | Effects of the r-GO doping on the structural, optical and electrical properties of CdO nanostructured films by ultrasonic spray pyrolysis. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 2111-2121.   | 2.2  | 11        |
| 21 | Silica supported ternary NiRuPt alloy nanoparticles: Highly efficient heterogeneous catalyst for H <sub>2</sub> generation via selective decomposition of hydrous hydrazine in alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27098-27113.  | 7.1  | 12        |
| 22 | Enhancement of adsorption capacity of reduced graphene oxide by sulfonic acid functionalization: Malachite green and Zn (II) uptake. <i>Materials Chemistry and Physics</i> , 2020, 256, 123662.  | 4.0  | 14        |
| 23 | A novel highly active and reusable carbon based platinum-ruthenium nanocatalyst for dimethylamine-borane dehydrogenation in water at room conditions. <i>Scientific Reports</i> , 2020, 10, 7149.   | 3.3  | 14        |
| 24 | Silver nanoparticles stabilized by a metal-organic framework (MIL-101(Cr)) as an efficient catalyst for imine production from the dehydrogenative coupling of alcohols and amines. <i>Catalysis Science and Technology</i> , 2020, 10, 4990-4999.   | 4.1  | 24        |
| 25 | Single-walled carbon nanotube supported Pt-Ru bimetallic superb nanocatalyst for the hydrogen generation from the methanolysis of methylamine-borane at mild conditions. <i>Scientific Reports</i> , 2019, 9, 15724.  | 3.3  | 28        |
| 26 | Ex situ synthesis and characterization of a polymer-carbon nanotube-based hybrid nanocatalyst with one of the highest catalytic activities and stabilities for the hydrolytic dehydrogenation of hydrazine-borane at room temperature conditions. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 432-438. | 9.4  | 10        |
| 27 | Catalytic methanolysis and hydrolysis of hydrazine-borane with monodisperse Ru NPs@nano-CeO <sub>2</sub> catalyst for hydrogen generation at room temperature. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13432-13442.   | 7.1  | 31        |
| 28 | A new highly active polymer supported ruthenium nanocatalyst for the hydrolytic dehydrogenation of dimethylamine-borane. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 99, 60-65.  | 5.3  | 28        |
| 29 | Monodisperse Ru Rh bimetallic nanocatalyst as highly efficient catalysts for hydrogen generation from hydrolytic dehydrogenation of methylamine-borane. <i>Journal of Molecular Liquids</i> , 2019, 285, 1-8.   | 4.9  | 24        |
| 30 | Palladium nanoparticles decorated on amine functionalized graphene nanosheets as excellent nanocatalyst for the hydrogenation of nitrophenols to aminophenol counterparts. <i>Journal of Hazardous Materials</i> , 2019, 369, 96-107.   | 12.4 | 49        |
| 31 | Polypyrrole-multi walled carbon nanotube hybrid material supported Pt NPs for hydrogen evolution from the hydrolysis of MeAB at mild conditions. <i>Scientific Reports</i> , 2019, 9, 18553.  | 3.3  | 20        |
| 32 | Synthesis and characterization of Rosa canina-mediated biogenic silver nanoparticles for anti-oxidant, antibacterial, antifungal, and DNA cleavage activities. <i>Heliyon</i> , 2019, 5, e02980.  | 3.2  | 88        |
| 33 | Graphene Functionalizations on Copper by Spectroscopic Techniques. <i>Carbon Nanostructures</i> , 2019, , 313-333.  | 0.1  | 0         |
| 34 | Palladium Nanoparticles Supported on Hydroxyapatite Nanospheres: Highly Active, Reusable and Green Catalyst for Suzuki - Miyaura Cross Coupling Reactions under Aerobic Conditions. <i>ChemistrySelect</i> , 2018, 3, 1569-1576.  | 1.5  | 15        |
| 35 | The novel pyridine based symmetrical Schiff base ligand and its transition metal complexes: synthesis, spectral definitions and application in dye sensitized solar cells (DSSCs). <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 898-905.   | 2.2  | 27        |
| 36 | Synthesis of bis(thiosemicarbazone) derivatives: Definition, crystal structure, biological potential and computational analysis. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2018, 193, 14-22.   | 1.6  | 7         |

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|----|---|------|-----------|
| 37 | Preparation and detailed characterization of zirconia nanopowder supported rhodium (0) nanoparticles for hydrogen production from the methanolysis of methylamine-borane in room conditions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 22548-22556.   | 7.1  | 21        |
| 38 | Synthesis, Characterization, DFT Studies, and Photodiode Application of Azo-azomethine-Based Ligand and Its Transition-Metal Complexes. <i>Journal of Electronic Materials</i> , 2018, 47, 7240-7250.   | 2.2  | 13        |
| 39 | Carbon-nanotube-based rhodium nanoparticles as highly-active catalyst for hydrolytic dehydrogenation of dimethylamineborane at room temperature. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 321-327.  | 9.4  | 55        |
| 40 | Pd(0) Nanoparticles Decorated on Graphene Nanosheets (GNS): Synthesis, Definition and Testing of the Catalytic Performance in the Methanolysis of Ammonia Borane at Room Conditions. <i>ChemistrySelect</i> , 2017, 2, 9628-9635.   | 1.5  | 20        |
| 41 | Transition Metal (II) Complexes with a Novel Azo-azomethine Schiff Base Ligand: Synthesis, Structural and Spectroscopic Characterization, Thermal Properties and Biological Applications. <i>Journal of Fluorescence</i> , 2017, 27, 2239-2251.   | 2.5  | 22        |
| 42 | Synthesized polyvidone-stabilized Rh(0) nanoparticles catalyzed the hydrolytic dehydrogenation of methylamine-borane in ambient conditions. <i>New Journal of Chemistry</i> , 2017, 41, 11839-11845.  | 2.8  | 19        |
| 43 | Metal-organic framework (MIL-101) stabilized ruthenium nanoparticles: Highly efficient catalytic material in the phenol hydrogenation. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 94-103.   | 4.4  | 81        |
| 44 | <i>In Situ</i> Formed Ruthenium(0) Nanoparticles Supported on TiO <sub>2</sub> Catalyzed Hydrogen Generation from Aqueous Ammonia-Borane Solution at Room Temperature Under Air. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016, 46, 534-542.                                   | 0.6  | 21        |
| 45 | PdAu-MnO nanoparticles supported on amine-functionalized SiO <sub>2</sub> for the room temperature dehydrogenation of formic acid in the absence of additives. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 586-595.  | 20.2 | 121       |
| 46 | Rhodium nanoparticles stabilized by sulfonic acid functionalized metal-organic framework for the selective hydrogenation of phenol to cyclohexanone. <i>Journal of Molecular Catalysis A</i> , 2015, 410, 209-220.  | 4.8  | 59        |
| 47 | MnO <sub>x</sub> -Promoted PdAg Alloy Nanoparticles for the Additive-Free Dehydrogenation of Formic Acid at Room Temperature. <i>ACS Catalysis</i> , 2015, 5, 6099-6110.  | 11.2 | 120       |
| 48 | Pd-MnO nanoparticles dispersed on amine-grafted silica: Highly efficient nanocatalyst for hydrogen production from additive-free dehydrogenation of formic acid under mild conditions. <i>Applied Catalysis B: Environmental</i> , 2015, 164, 324-333.  | 20.2 | 137       |
| 49 | Transition Metal(II) Complexes of a Novel Symmetrical Benzothiazole-Based Ligand: Synthesis, Spectral/Structural Characterization and Fluorescence Properties. <i>Journal of Fluorescence</i> , 2014, 24, 1679-1686.  | 2.5  | 17        |
| 50 | Electrical characteristics of organic/inorganic Pt(II) complex/p-Si semiconductor contacts. <i>Materials Science in Semiconductor Processing</i> , 2014, 28, 31-36.   | 4.0  | 18        |
| 51 | Palladium(0) nanoparticles supported on metal organic framework as highly active and reusable nanocatalyst in dehydrogenation of dimethylamine-borane. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 394-401.  | 20.2 | 60        |
| 52 | Ruthenium(0) nanoparticles stabilized by metal-organic framework (ZIF-8): Highly efficient catalyst for the dehydrogenation of dimethylamine-borane and transfer hydrogenation of unsaturated hydrocarbons using dimethylamine-borane as hydrogen source. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 534-541. | 20.2 | 107       |
| 53 | Hydroxyapatite-nanosphere supported ruthenium(0) nanoparticle catalyst for hydrogen generation from ammonia-borane solution: kinetic studies for nanoparticle formation and hydrogen evolution. <i>RSC Advances</i> , 2014, 4, 28947-28955.   | 3.6  | 35        |
| 54 | Palladium(0) nanoparticles supported on hydroxyapatite nanospheres: active, long-lived, and reusable nanocatalyst for hydrogen generation from the dehydrogenation of aqueous ammonia-borane solution. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.   | 1.9  | 26        |

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|----|--|-----|-----------|
| 55 | Mononuclear Complexes Based on Pyrimidine Ring Azo Schiff Base Ligand: Synthesis, Characterization, Antioxidant, Antibacterial, and Thermal Investigations. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 1754-1762.  | 1.2 | 26        |
| 56 | Amylamine stabilized platinum(0) nanoparticles: active and reusable nanocatalyst in the room temperature dehydrogenation of dimethylamine-borane. RSC Advances, 2014, 4, 1526-1531.  | 3.6 | 98        |
| 57 | Fluorescence Properties and Electrochemical Behavior of Some Schiff Bases Derived from N-Aminopyrimidine. Journal of Fluorescence, 2014, 24, 389-396.  | 2.5 | 3         |
| 58 | 2, 6-Bis((E)-((5-benzoyl-2-thioxo-4-phenylpyrimidin-1(2H-yl)imino)methyl)-(4-(methyl)phenol and its Metal(II) Complexes: Synthesis, Spectroscopy, Biological Activity, and Photoluminescence Features. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 2282-2289. | 1.2 | 7         |
| 59 | Determination of vanillin in commercial food product by adsorptive stripping voltammetry using a boron-doped diamond electrode. Food Chemistry, 2013, 141, 1821-1827.  | 8.2 | 95        |
| 60 | Synthesis and Characterization of Cu(II), Ni(II), Co(II), Mn(II), and Cd(II) Transition Metal Complexes of Tridentate Schiff Base Derived from O-Vanillin and N-Aminopyrimidine-2-Thione. Phosphorus, Sulfur and Silicon and the Related Elements, 2011, 186, 1962-1971.         | 1.6 | 14        |
| 61 | Metal/semiconductor contact properties of Al/Co(II) complex compounds. Microelectronic Engineering, 2011, 88, 41-45.   | 2.4 | 5         |
| 62 | Ohmic and rectifier properties of Al/Ligand(N-APTH) and Al/Cu(II)Complex contacts. Microelectronic Engineering, 2010, 87, 2282-2287.   | 2.4 | 9         |
| 63 | Synthesis, Characterisation and Antimicrobial Activity 1-Aminopyrimidine-2(1H)-Thione and its Co(II), Ni(II), Pd(II) and Pt(II) Complexes. Journal of Chemical Research, 2010, 34, 274-277.  | 1.3 | 5         |
| 64 | 1-Amino-5-benzoyl-4-phenylpyrimidin-2(1H)-one. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, o2476-o2478.  | 0.2 | 0         |