

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|-------------------------|---------------|-----------------|
| 102 papers | 3,650 citations | 29 h-index | 59 g-index |
| 114 ext. papers | 4,293 ext. citations | 6 avg, IF | 5.77 L-index |

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 102 | Visible-light-induced photocatalysis through surface plasmon excitation of gold on titania surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2344-55 | 3.6 | 457 |
| 101 | Visible light-induced photocatalytic reaction of gold-modified titanium(IV) oxide particles: action spectrum analysis. <i>Chemical Communications</i> , 2009 , 241-3 | 5.8 | 351 |
| 100 | Surface Modification of TiO ₂ with Ag Nanoparticles and CuO Nanoclusters for Application in Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5143-5154 | 3.8 | 198 |
| 99 | Preparation and characterization of monometallic (Au) and bimetallic (Ag/Au) modified-titania photocatalysts activated by visible light. <i>Applied Catalysis B: Environmental</i> , 2011 , 101, 504-514 | 21.8 | 185 |
| 98 | Modification of Titanium Dioxide with Platinum Ions and Clusters: Application in Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1124-1131 | 3.8 | 182 |
| 97 | TiO ₂ photoactivity in vis and UV light: The influence of calcination temperature and surface properties. <i>Applied Catalysis B: Environmental</i> , 2008 , 84, 440-447 | 21.8 | 152 |
| 96 | Silver-doped TiO ₂ prepared by microemulsion method: Surface properties, bio- and photoactivity. <i>Separation and Purification Technology</i> , 2010 , 72, 309-318 | 8.3 | 149 |
| 95 | On the Origin of Enhanced Photocatalytic Activity of Copper-Modified Titania in the Oxidative Reaction Systems. <i>Catalysts</i> , 2017 , 7, 317 | 4 | 119 |
| 94 | Synergetic effect of Ni and Au nanoparticles synthesized on titania particles for efficient photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2016 , 191, 18-28 | 21.8 | 114 |
| 93 | Enhanced photocatalytic, electrochemical and photoelectrochemical properties of TiO nanotubes arrays modified with Cu, AgCu and Bi nanoparticles obtained via radiolytic reduction. <i>Applied Surface Science</i> , 2016 , 387, 89-102 | 6.7 | 90 |
| 92 | Photocatalytic activity and luminescence properties of RE ₃ +TiO ₂ nanocrystals prepared by sol-gel and hydrothermal methods. <i>Applied Catalysis B: Environmental</i> , 2016 , 181, 825-837 | 21.8 | 84 |
| 91 | Surface Modification of TiO ₂ with Au Nanoclusters for Efficient Water Treatment and Hydrogen Generation under Visible Light. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 25010-25022 | 3.8 | 78 |
| 90 | The effect of nanoparticles size on photocatalytic and antimicrobial properties of Ag-Pt/TiO ₂ photocatalysts. <i>Applied Surface Science</i> , 2015 , 353, 317-325 | 6.7 | 76 |
| 89 | Photocatalytic Hydrogen Evolution Using NiPd/TiO ₂ : Correlation of Light Absorption, Charge-Carrier Dynamics, and Quantum Efficiency. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14302-14311 | 3.8 | 65 |
| 88 | Mono- and bi-metallic plasmonic photocatalysts for degradation of organic compounds under UV and visible light irradiation. <i>Catalysis Today</i> , 2014 , 230, 131-137 | 5.3 | 63 |
| 87 | Silver-modified titania with enhanced photocatalytic and antimicrobial properties under UV and visible light irradiation. <i>Catalysis Today</i> , 2015 , 252, 136-142 | 5.3 | 57 |
| 86 | Noble metal-modified octahedral anatase titania particles with enhanced activity for decomposition of chemical and microbiological pollutants. <i>Chemical Engineering Journal</i> , 2017 , 318, 121-134 | 14.7 | 51 |

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|----|---|------|----|
| 85 | UV-Vis-Induced Degradation of Phenol over Magnetic Photocatalysts Modified with Pt, Pd, Cu and Au Nanoparticles. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 47 |
| 84 | Hybrid photocatalysts composed of titania modified with plasmonic nanoparticles and ruthenium complexes for decomposition of organic compounds. <i>Applied Catalysis B: Environmental</i> , 2015 , 178, 133-143 | 21.8 | 46 |
| 83 | Noble metal-modified faceted anatase titania photocatalysts: Octahedron versus decahedron. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 574-587 | 21.8 | 46 |
| 82 | Size-controlled gold nanoparticles on octahedral anatase particles as efficient plasmonic photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 393-405 | 21.8 | 43 |
| 81 | Plasmonic Titania Photocatalysts Active under UV and Visible-Light Irradiation: Influence of Gold Amount, Size, and Shape. <i>Journal of Nanotechnology</i> , 2012 , 2012, 1-11 | 3.5 | 42 |
| 80 | Morphology-dependent photocatalytic activity of octahedral anatase particles prepared by ultrasonication-hydrothermal reaction of titanates. <i>Nanoscale</i> , 2015 , 7, 12392-404 | 7.7 | 40 |
| 79 | Interparticle electron transfer in methanol dehydrogenation on platinum-loaded titania particles prepared from P25. <i>Catalysis Today</i> , 2018 , 303, 327-333 | 5.3 | 38 |
| 78 | Decahedral-shaped anatase titania photocatalyst particles: Synthesis in a newly developed coaxial-flow gas-phase reactor. <i>Chemical Engineering Journal</i> , 2016 , 289, 502-512 | 14.7 | 36 |
| 77 | Photoreactors for Wastewater Treatment: A Review. <i>Recent Patents on Engineering</i> , 2010 , 4, 242-266 | 0.3 | 36 |
| 76 | Preparation and photocatalytic activity of Nd-modified TiO ₂ photocatalysts: Insight into the excitation mechanism under visible light. <i>Journal of Catalysis</i> , 2017 , 353, 211-222 | 7.3 | 31 |
| 75 | H ₂ O ₂ /UV enhanced degradation of pesticides in wastewater. <i>Water Science and Technology</i> , 2004 , 49, 261-266 | 2.2 | 29 |
| 74 | Silver- and copper-modified decahedral anatase titania particles as visible light-responsive plasmonic photocatalyst. <i>Journal of Photonics for Energy</i> , 2016 , 7, 012008 | 1.2 | 29 |
| 73 | Preparation of CdS and BiS quantum dots co-decorated perovskite-type KNbO ₃ ternary heterostructure with improved visible light photocatalytic activity and stability for phenol degradation. <i>Dalton Transactions</i> , 2018 , 47, 15232-15245 | 4.3 | 29 |
| 72 | TiO ₂ and NaTaO ₃ Decorated by Trimetallic Au/Pd/Pt Core/Shell Nanoparticles as Efficient Photocatalysts: Experimental and Computational Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16665-16682 | 8.3 | 29 |
| 71 | The effect of anatase and rutile crystallites isolated from titania P25 photocatalyst on growth of selected mould fungi. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 151, 54-62 | 6.7 | 28 |
| 70 | Enhanced Photocatalytic and Antimicrobial Performance of Cuprous Oxide/Titania: The Effect of Titania Matrix. <i>Materials</i> , 2018 , 11, | 3.5 | 28 |
| 69 | Morphology- and Crystalline Composition-Governed Activity of Titania-Based Photocatalysts: Overview and Perspective. <i>Catalysts</i> , 2019 , 9, 1054 | 4 | 27 |
| 68 | Influence of the preparation method on the photocatalytic activity of Nd-modified TiO ₂ . <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 447-459 | 3 | 24 |

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|----|---|------|----|
| 67 | Resonant localization, enhancement, and polarization of optical fields in nano-scale interface regions for photo-catalytic applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2814-22 | 1.3 | 23 |
| 66 | Photocatalytic and Antimicrobial Properties of Ag ₂ O/TiO ₂ Heterojunction. <i>ChemEngineering</i> , 2019 , 3, 3 | 2.6 | 22 |
| 65 | Influence of post-treatment operations on structural properties and photocatalytic activity of octahedral anatase titania particles prepared by an ultrasonication-hydrothermal reaction. <i>Molecules</i> , 2014 , 19, 19573-87 | 4.8 | 21 |
| 64 | Enhanced Photocatalytic Activity by Particle Morphology: Preparation, Characterization, and Photocatalytic Activities of Octahedral Anatase Titania Particles. <i>Chemistry Letters</i> , 2014 , 43, 346-348 | 1.7 | 21 |
| 63 | Silver-modified octahedral anatase particles as plasmonic photocatalyst. <i>Catalysis Today</i> , 2018 , 310, 19-25 | 3.3 | 19 |
| 62 | Experimental and computational study of Tm-doped TiO ₂ : The effect of Li ⁺ on Vis-response photocatalysis and luminescence. <i>Applied Catalysis B: Environmental</i> , 2019 , 252, 138-151 | 21.8 | 18 |
| 61 | A new simple approach to prepare rare-earth metals-modified TiO ₂ nanotube arrays photoactive under visible light: Surface properties and mechanism investigation. <i>Results in Physics</i> , 2019 , 12, 412-423 | 3.7 | 18 |
| 60 | Noble metal-modified titania with visible-light activity for the decomposition of microorganisms. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 829-841 | 3 | 18 |
| 59 | Photodegradation of Microcystin-LR Using Visible Light-Activated C/N-co-Modified Mesoporous TiO ₂ Photocatalyst. <i>Materials</i> , 2019 , 12, | 3.5 | 17 |
| 58 | Are Titania Photocatalysts and Titanium Implants Safe? Review on the Toxicity of Titanium Compounds. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 17 |
| 57 | Photocatalytic Water Disinfection under Solar Irradiation by d-Glucose-Modified Titania. <i>Catalysts</i> , 2018 , 8, 316 | 4 | 17 |
| 56 | Morphology, Photocatalytic and Antimicrobial Properties of TiO Modified with Mono- and Bimetallic Copper, Platinum and Silver Nanoparticles. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 15 |
| 55 | Size-Controlled Synthesis of Pt Particles on TiO ₂ Surface: Physicochemical Characteristic and Photocatalytic Activity. <i>Catalysts</i> , 2019 , 9, 940 | 4 | 15 |
| 54 | Inhibition of Fungal Growth Using Modified TiO with Core@Shell Structure of Ag@CuO Clusters.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 5626-5633 | 4.1 | 14 |
| 53 | Titania modification with a ruthenium(II) complex and gold nanoparticles for photocatalytic degradation of organic compounds. <i>Photochemical and Photobiological Sciences</i> , 2016 , 15, 69-79 | 4.2 | 14 |
| 52 | Plasmonic Photocatalysts for Microbiological Applications. <i>Catalysts</i> , 2020 , 10, 824 | 4 | 14 |
| 51 | Photonic Crystals for Plasmonic Photocatalysis. <i>Catalysts</i> , 2020 , 10, 827 | 4 | 14 |
| 50 | Gas-phase removal of indoor volatile organic compounds and airborne microorganisms over mono- and bimetal-modified (Pt, Cu, Ag) titanium(IV) oxide nanocomposites. <i>Indoor Air</i> , 2019 , 29, 979-992 | 5.4 | 13 |

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| 49 | Frequency- and polarization-dependent optical response of asymmetric spheroidal silver nanoparticles on dielectric substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 268-270 | 2.5 | 13 |
| 48 | Carbon/Graphene-Modified Titania with Enhanced Photocatalytic Activity under UV and Vis Irradiation. <i>Materials</i> , 2019 , 12, | 3.5 | 13 |
| 47 | Mono- and bimetallic (Pt/Cu) titanium(IV) oxide core-shell photocatalysts with UV/Vis light activity and magnetic separability. <i>Catalysis Today</i> , 2021 , 361, 198-209 | 5.3 | 13 |
| 46 | Enhanced photocatalytic activity of octahedral anatase particles prepared by hydrothermal reaction. <i>Catalysis Today</i> , 2017 , 280, 29-36 | 5.3 | 12 |
| 45 | Experimental and theoretical investigations of the influence of carbon on a Ho-TiO photocatalyst with Vis response. <i>Journal of Colloid and Interface Science</i> , 2019 , 549, 212-224 | 9.3 | 12 |
| 44 | On the mechanism of photocatalytic reactions on Cu ₂ O@TiO ₂ core-shell photocatalysts. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10135-10145 | 13 | 12 |
| 43 | Heterojunction of CuO nanoclusters with TiO for photo-oxidation of organic compounds and for hydrogen production. <i>Journal of Chemical Physics</i> , 2020 , 153, 034705 | 3.9 | 11 |
| 42 | Development of Plasmonic Photocatalysts for Environmental Application. <i>Advances in Science and Technology</i> , 2014 , 93, 174-183 | 0.1 | 9 |
| 41 | Bactericidal Properties of Plasmonic Photocatalysts Composed of Noble Metal Nanoparticles on Faceted Anatase Titania. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 442-452 | 1.3 | 9 |
| 40 | Influence of Semiconductor Morphology on Photocatalytic Activity of Plasmonic Photocatalysts: Titanate Nanowires and Octahedral Anatase Nanoparticles. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 8 |
| 39 | Noble Metal Nanoparticles for Water Purification 2019 , 553-579 | | 8 |
| 38 | Morphology-Governed Performance of Plasmonic Photocatalysts. <i>Catalysts</i> , 2020 , 10, 1070 | 4 | 7 |
| 37 | Slow Photon-induced Enhancement of Photocatalytic Activity of Gold Nanoparticle-incorporated Titania Inverse Opal. <i>Chemistry Letters</i> , 2021 , 50, 711-713 | 1.7 | 7 |
| 36 | A Comparative Study of Microcystin-LR Degradation by UV-A, Solar and Visible Light Irradiation Using Bare and C/N/S-Modified Titania. <i>Catalysts</i> , 2019 , 9, 877 | 4 | 7 |
| 35 | Systematic and detailed examination of NaYF ₄ -Er-Yb-TiO ₂ photocatalytic activity under Vis/NIR irradiation: Experimental and theoretical analyses. <i>Applied Surface Science</i> , 2021 , 536, 147805 | 6.7 | 7 |
| 34 | Stannates, titanates and tantalates modified with carbon and graphene quantum dots for enhancement of visible-light photocatalytic activity. <i>Applied Surface Science</i> , 2021 , 541, 148425 | 6.7 | 7 |
| 33 | Visible-light-driven lanthanide-organic-frameworks modified TiO ₂ photocatalysts utilizing up-conversion effect. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120056 | 21.8 | 7 |
| 32 | Synergistic Effect of Cu ₂ O and Urea as Modifiers of TiO ₂ for Enhanced Visible Light Activity. <i>Catalysts</i> , 2018 , 8, 240 | 4 | 6 |

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| 31 | Defective Dopant-Free TiO ₂ as an Efficient Visible Light-Active Photocatalyst. <i>Catalysts</i> , 2021 , 11, 978 | 4 | 6 |
| 30 | On the excitation mechanism of visible responsible Er-TiO ₂ system proved by experimental and theoretical investigations for boosting photocatalytic activity. <i>Applied Surface Science</i> , 2020 , 527, 146815 | 6.7 | 5 |
| 29 | The Influence of The Light-Activated Titania P25 on Human Breast Cancer Cells. <i>Catalysts</i> , 2020 , 10, 238 | 4 | 5 |
| 28 | EFFECT OF WATER ACTIVITY AND TITANIA P25 PHOTOCATALYST ON INACTIVATION OF PATHOGENIC FUNGI--CONTRIBUTION TO THE PROTECTION OF PUBLIC HEALTH. <i>Central European Journal of Public Health</i> , 2015 , 23, 267-71 | 1.2 | 5 |
| 27 | Theoretical and Experimental Studies on the Visible Light Activity of TiO ₂ Modified with Halide-Based Ionic Liquids. <i>Catalysts</i> , 2020 , 10, 371 | 4 | 4 |
| 26 | Three-dimensional monodispersed TiO ₂ microsphere network formed by a sub-zero sol-gel method. <i>Materials Letters</i> , 2020 , 268, 127592 | 3.3 | 4 |
| 25 | Band-gap Engineering of Photocatalysts: Surface Modification versus Doping | | 4 |
| 24 | Computer Simulations of Photocatalytic Reactors. <i>Catalysts</i> , 2021 , 11, 198 | 4 | 4 |
| 23 | Morphology-Governed Performance of Multi-Dimensional Photocatalysts for Hydrogen Generation. <i>Energies</i> , 2021 , 14, 7223 | 3.1 | 3 |
| 22 | The synergistic effect of anatase and brookite for photocatalytic generation of hydrogen and diclofenac degradation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106566 | 6.8 | 3 |
| 21 | Influence of titanium dioxide modification on the antibacterial properties. <i>Polish Journal of Chemical Technology</i> , 2016 , 18, 56-64 | 1 | 3 |
| 20 | Mono- and Dual-modified Titania with a Ruthenium(II) Complex and Silver Nanoparticles for Photocatalytic Degradation of Organic Compounds. <i>Journal of Advanced Oxidation Technologies</i> , 2016 , 19, | | 3 |
| 19 | Novel Structures and Applications of Graphene-Based Semiconductor Photocatalysts: Faceted Particles, Photonic Crystals, Antimicrobial and Magnetic Properties. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1982 | 2.6 | 3 |
| 18 | UV/VIS LIGHT-ENHANCED PHOTOCATALYSIS FOR WATER TREATMENT AND PROTECTION | | 3 |
| 17 | Application of Spinel and Hexagonal Ferrites in Heterogeneous Photocatalysis. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10160 | 2.6 | 2 |
| 16 | Vis-Responsive Copper-Modified Titania for Decomposition of Organic Compounds and Microorganisms. <i>Catalysts</i> , 2020 , 10, 1194 | 4 | 2 |
| 15 | Mono- and bimetallic (Pt/Cu) titanium(IV) oxide photocatalysts. Physicochemical and photocatalytic data of magnetic nanocomposites. <i>Data in Brief</i> , 2020 , 31, 105814 | 1.2 | 2 |
| 14 | TiO ₂ /Au/TiO ₂ plasmonic photocatalyst with enhanced photocatalytic activity and stability under visible-light irradiation. <i>Catalysis Today</i> , 2021 , | 5.3 | 2 |

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|----|--|------|---|
| 13 | Does Symmetry Control Photocatalytic Activity of Titania-Based Photocatalysts?. <i>Symmetry</i> , 2021 , 13, 1682 | 2.7 | 2 |
| 12 | The Effect of the Metal Type on Luminescence and Photocatalytic Properties of Lanthanide-Organic Frameworks Modified Titania. <i>Proceedings (mdpi)</i> , 2019 , 16, 11 | 0.3 | 1 |
| 11 | Enhanced Photocatalytic Activity of Hierarchical Bi ₂ WO ₆ Microballs by Modification with Noble Metals. <i>Catalysts</i> , 2022 , 12, 130 | 4 | 1 |
| 10 | P25 and its components - Electronic properties and photocatalytic activities. <i>Surfaces and Interfaces</i> , 2022 , 31, 102057 | 4.1 | 1 |
| 9 | Octahedral Anatase Titania as Efficient Photocatalyst: Influence of Preparation Conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 1278-1287 | 1.3 | 0 |
| 8 | A novel (Ti/Ce)UiO-X MOFs@TiO ₂ heterojunction for enhanced photocatalytic performance: Boosting via Ce ⁴⁺ /Ce ³⁺ and Ti ⁴⁺ /Ti ³⁺ redox mediators. <i>Applied Catalysis B: Environmental</i> , 2022 , 310, 121349 | 21.8 | 0 |
| 7 | Bi ₂ WO ₆ -based Z-scheme photocatalysts: Principles, mechanisms and photocatalytic applications. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107838 | 6.8 | 0 |
| 6 | Nanoarchitecture engineering in heterogeneous photocatalysis for improved activity and selectivity. <i>Chem Catalysis</i> , 2022 , 2, 925-927 | | 0 |
| 5 | Gas-Phase Synthesis of Anatase Titania Nanocrystals with Controlled Structural Properties 2020 , 99-109 | | |
| 4 | Plasmonic photocatalysis 2021 , 421-446 | | |
| 3 | The Role of Oxygen Vacancy and Other Defects for Activity Enhancement. <i>Green Chemistry and Sustainable Technology</i> , 2022 , 337-355 | 1.1 | |
| 2 | Development of Monodisperse Mesoporous Microballs Composed of Decahedral Anatase Nanocrystals. <i>Catalysts</i> , 2022 , 12, 408 | 4 | |
| 1 | Fabrication and Characterization of Inverse-Opal Titania Films for Enhancement of Photocatalytic Activity. <i>ChemEngineering</i> , 2022 , 6, 33 | 2.6 | |