Ch Venkata Reddy

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Polymeric graphitic carbon nitride (g-C3N4)-based semiconducting nanostructured materials: Synthesis methods, properties and photocatalytic applications. Journal of Environmental Management, 2019, 238, 25-40. | 3.8 | 321 |
| 2 | ZnO-based nanostructured electrodes for electrochemical sensors and biosensors in biomedical applications. Biosensors and Bioelectronics, 2019, 141, 111417. | 5.3 | 300 |
| 3 | Green synthesis of Cu-doped ZnO nanoparticles and its application for the photocatalytic degradation of hazardous organic pollutants. Chemosphere, 2022, 287, 132081. | 4.2 | 260 |
| 4 | Synthesis and characterization of pure tetragonal ZrO2 nanoparticles with enhanced photocatalytic activity. Ceramics International, 2018, 44, 6940-6948. | 2.3 | 161 |
| 5 | Nanostructured titanium oxide hybrids-based electrochemical biosensors for healthcare applications. Colloids and Surfaces B: Biointerfaces, 2019, 178, 385-394. | 2.5 | 156 |
| 6 | Electrochemical Sensors and Biosensors Based on Graphene Functionalized with Metal Oxide Nanostructures for Healthcare Applications. ChemistrySelect, 2019, 4, 5322-5337. | 0.7 | 140 |
| 7 | Efficient removal of toxic organic dyes and photoelectrochemical properties of iron-doped zirconia nanoparticles. Chemosphere, 2020, 239, 124766. | 4.2 | 140 |
| 8 | Template-free synthesis of tetragonal Co-doped ZrO2 nanoparticles for applications in electrochemical energy storage and water treatment. Electrochimica Acta, 2019, 317, 416-426. | 2.6 | 136 |
| 9 | Fabrication of ZnO nanoparticles modified sensor for electrochemical oxidation of methdilazine. Applied Surface Science, 2019, 496, 143656. | 3.1 | 124 |
| 10 | Copper-doped ZrO2 nanoparticles as high-performance catalysts for efficient removal of toxic organic pollutants and stable solar water oxidation. Journal of Environmental Management, 2020, 260, 110088. | 3.8 | 121 |
| 11 | ZnO nanosheets-decorated Bi2WO6 nanolayers as efficient photocatalysts for the removal of toxic environmental pollutants and photoelectrochemical solar water oxidation. Journal of Environmental Management, 2020, 265, 110504. | 3.8 | 117 |
| 12 | Barium titanate nanostructures for photocatalytic hydrogen generation and photodegradation of chemical pollutants. Journal of Materials Science: Materials in Electronics, 2019, 30, 20646-20653. | 1.1 | 110 |
| 13 | Synthesis, optical properties and efficient photocatalytic activity of CdO/ZnO hybrid nanocomposite. Journal of Physics and Chemistry of Solids, 2018, 112, 20-28. | 1.9 | 109 |
| 14 | Z-scheme binary 1D ZnWO4 nanorods decorated 2D NiFe2O4 nanoplates as photocatalysts for high efficiency photocatalytic degradation of toxic organic pollutants from wastewater. Journal of Environmental Management, 2020, 268, 110677. | 3.8 | 106 |
| 15 | Novel Z-scheme binary zinc tungsten oxide/nickel ferrite nanohybrids for photocatalytic reduction of chromium (Cr (VI)), photoelectrochemical water splitting and degradation of toxic organic pollutants. Journal of Hazardous Materials, 2022, 423, 127044. | 6.5 | 81 |
| 16 | Synthesis and structural characterization of MoS2 nanospheres and nanosheets using solvothermal method. Journal of Materials Science, 2015, 50, 5024-5038. | 1.7 | 77 |
| 17 | Correlation between physical and structural properties of Co2+ doped mixed alkali zinc borate glasses. Journal of Non-Crystalline Solids, 2011, 357, 3373-3380. | 1.5 | 73 |
| 18 | A novel biosensor based on graphene oxide-nanoclay hybrid electrode for the detection of Theophylline for healthcare applications. Microchemical Journal, 2019, 149, 103985. | 2.3 | 73 |

CH VENKATA REDDY

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|----|---|-----|-----------|
| 19 | Synthesis and photoelectrochemical water oxidation of (Y, Cu) codoped α-Fe2O3 nanostructure photoanode. Journal of Alloys and Compounds, 2020, 814, 152349. | 2.8 | 73 |
| 20 | Improved photocatalytic activity of MoS ₂ nanosheets decorated with SnO ₂ nanoparticles. RSC Advances, 2015, 5, 86675-86684. | 1.7 | 62 |
| 21 | Ultra-small zinc oxide nanosheets anchored onto sodium bismuth sulfide nanoribbons as solar-driven photocatalysts for removal of toxic pollutants and phtotoelectrocatalytic water oxidation. Chemosphere, 2021, 267, 128559. | 4.2 | 59 |
| 22 | Co-precipitation synthesis and characterization of faceted MoS2 nanorods with controllable morphologies. Applied Physics A: Materials Science and Processing, 2015, 119, 813-823. | 1.1 | 53 |
| 23 | Functional nanostructured metal oxides and its hybrid electrodes – Recent advancements in electrochemical biosensing applications. Microchemical Journal, 2020, 159, 105522. | 2.3 | 50 |
| 24 | Synthesis and characterization of VO2+ doped ZnO–CdS composite nanopowder. Journal of Molecular Structure, 2015, 1081, 254-259. | 1.8 | 49 |
| 25 | Structural, optical, and bifunctional applications: Supercapacitor and photoelectrochemical water splitting of Ni-doped ZnO nanostructures. Journal of Electroanalytical Chemistry, 2018, 828, 124-136. | 1.9 | 49 |
| 26 | Structural and optical properties of vanadium doped SnO 2 nanoparticles with high photocatalytic activities. Journal of Luminescence, 2016, 179, 26-34. | 1.5 | 47 |
| 27 | Spectral investigations on undoped and Cu2+ doped ZnO–CdS composite nanopowders. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 139, 86-93. | 2.0 | 46 |
| 28 | Silica gel-modified electrode as an electrochemical sensor for the detection of acetaminophen. Microchemical Journal, 2019, 150, 104206. | 2.3 | 46 |
| 29 | Green Synthesis of Silver Nanoparticles and Evaluation of Their Antibacterial Activity against Multidrug-Resistant Bacteria and Wound Healing Efficacy Using a Murine Model. Antibiotics, 2020, 9, 902. | 1.5 | 45 |
| 30 | ZrO2/MoS2 heterojunction photocatalysts for efficient photocatalytic degradation of methyl orange. Electronic Materials Letters, 2016, 12, 812-823. | 1.0 | 44 |
| 31 | Effect of ball milling on optical properties and visible photocatalytic activity of Fe doped ZnO nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 240, 33-40. | 1.7 | 44 |
| 32 | Facile synthesis of Cu@TiO2 core shell nanowires for efficient photocatalysis. Materials Letters, 2016, 176, 265-269. | 1.3 | 43 |
| 33 | Preparation and improved photocatalytic activity of mesoporous WS 2 using combined hydrothermal-evaporation induced self-assembly method. Materials Research Bulletin, 2016, 75, 193-203. | 2.7 | 43 |
| 34 | Facile synthesis of Ni-doped ZnS-CdS composite and their magnetic and photoluminescence properties. Journal of Environmental Chemical Engineering, 2021, 9, 106335. | 3.3 | 43 |
| 35 | Synthesis of MoS2 multi-wall nanotubes using wet chemical method with H2O2 as growth promoter. Superlattices and Microstructures, 2015, 85, 124-132. | 1.4 | 42 |
| 36 | Investigation of structural, thermal and magnetic properties of cadmium substituted cobalt ferrite nanoparticles. Superlattices and Microstructures, 2015, 82, 165-173. | 1.4 | 42 |

CH VENKATA REDDY

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|----|--|------|-----------|
| 37 | Synthesis of Cr-doped SnO2 quantum dots and its enhanced photocatalytic activity. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 223, 131-142. | 1.7 | 40 |
| 38 | A novel one-pot approach of ZnWO4 nanorods decorated onto g-C3N4 nanosheets: 1D/2D heterojunction for enhanced solar-light-driven photocatalytic activity. Journal of Materials Science, 2020, 55, 1170-1183. | 1.7 | 40 |
| 39 | Structural, optical and magnetic properties of Mn2+ doped ZnO-CdS composite nanopowder. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 201, 72-78. | 1.7 | 39 |
| 40 | Characterization of Cr3+ doped mixed alkali ions effect in zinc borate glasses – Physical and spectroscopic investigations. Optical Materials, 2014, 36, 1329-1335. | 1.7 | 37 |
| 41 | Novel biosensor for efficient electrochemical detection of methdilazine using carbon nanotubes-modified electrodes. Materials Research Express, 2019, 6, 116308. | 0.8 | 35 |
| 42 | Effect of Li2O content on physical and structural properties of vanadyl doped alkali zinc borate glasses. Physica B: Condensed Matter, 2011, 406, 2132-2137. | 1.3 | 34 |
| 43 | Structural, optical, and improved photocatalytic properties of CdS/SnO 2 hybrid photocatalyst nanostructure. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 221, 63-72. | 1.7 | 34 |
| 44 | Template-free hydrothermal synthesis of hexa ferrite nanoparticles and its adsorption capability for different organic dyes: Comparative adsorption studies, isotherms and kinetic studies. Materials Science for Energy Technologies, 2019, 2, 657-666. | 1.0 | 33 |
| 45 | Structural and optical properties of CdO/ZnS core/shell nanocomposites. Journal of Alloys and Compounds, 2015, 628, 39-45. | 2.8 | 32 |
| 46 | Vanadium-doped graphitic carbon nitride for multifunctional applications: Photoelectrochemical water splitting and antibacterial activities. Chemosphere, 2021, 264, 128593. | 4.2 | 32 |
| 47 | Synthesis and structural characterization of Co2+ ions doped ZnO nanopowders by solid state reaction through sonication. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 109, 90-96. | 2.0 | 30 |
| 48 | Spectroscopic investigations and physical properties of Mn2+ doped mixed alkali zinc borate glasses. Materials Research Bulletin, 2011, 46, 2222-2229. | 2.7 | 29 |
| 49 | Structural and optical investigations on ZnCdO nanopowder. Physica Scripta, 2012, 86, 035708. | 1.2 | 29 |
| 50 | Au-doped BiVO4 nanostructure-based photoanode with enhanced photoelectrochemical solar water splitting and electrochemical energy storage ability. Applied Surface Science, 2021, 545, 149030. | 3.1 | 29 |
| 51 | Mixed alkali effect and optical properties of Ni2+ doped 20ZnO+xLi2O+(30â^'x)Na2O+50B2O3 glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 1116-1122. | 2.0 | 27 |
| 52 | Characterization of Fe3+ doped mixed alkali zinc borate glasses — Physical and spectroscopic investigations. Journal of Non-Crystalline Solids, 2013, 365, 6-12. | 1.5 | 27 |
| 53 | High performance hierarchical SiCN nanowires for efficient photocatalytic - photoelectrocatalytic and supercapacitor applications. Applied Catalysis B: Environmental, 2018, 237, 876-887. | 10.8 | 27 |
| 54 | Novel BiVO4 nanostructures for environmental remediation, enhanced photoelectrocatalytic water oxidation and electrochemical energy storage performance. Solar Energy, 2020, 207, 441-449. | 2.9 | 26 |

Ch Venkata Reddy

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|----|---|-----|-----------|
| 55 | Novel g-C3N4/Cu-doped ZrO2 hybrid heterostructures for efficient photocatalytic Cr(VI) photoreduction and electrochemical energy storage applications. Chemosphere, 2022, 295, 133851. | 4.2 | 25 |
| 56 | Effect of cobalt concentration on morphology of Co-doped SnO2 nanostructures synthesized by solution combustion method. Journal of Materials Science: Materials in Electronics, 2016, 27, 5197-5203. | 1.1 | 24 |
| 57 | Enhanced visible-light photocatalytic performance of Fe3O4 nanopyramids for water splitting and dye degradation. Journal of Solid State Electrochemistry, 2018, 22, 3535-3546. | 1.2 | 24 |
| 58 | Investigation of dopant and Ag plasmonic effect on $\hat{I}\pm$ -Fe2O3 photoelectrode for photoelectrochemical water splitting activity. Applied Surface Science, 2019, 488, 629-638. | 3.1 | 24 |
| 59 | Effect of plasmonic Ag nanowires on the photocatalytic activity of Cu doped Fe2O3 nanostructures photoanodes for superior photoelectrochemical water splitting applications. Journal of Electroanalytical Chemistry, 2019, 842, 146-160. | 1.9 | 24 |
| 60 | Novel edge-capped ZrO2 nanoparticles onto V2O5 nanowires for efficient photosensitized reduction of chromium (Cr (VI)), photoelectrochemical solar water splitting, and electrochemical energy storage applications. Chemical Engineering Journal, 2022, 430, 132988. | 6.6 | 24 |
| 61 | Spectral Investigations on Cu2+-Doped ZnO Nanopowders. Applied Magnetic Resonance, 2011, 41, 69-78. | 0.6 | 23 |
| 62 | EPR and Optical Studies of Fe3+-Doped Ca–Li Hydroxyapatite Nanopowder: Mechanochemical Synthesis. Applied Magnetic Resonance, 2015, 46, 1-15. | 0.6 | 22 |
| 63 | Highly photostable Zn-doped TiO2 thin film nanostructures for enhanced dye degradation deposited by sputtering method. Materials Science in Semiconductor Processing, 2018, 85, 113-121. | 1.9 | 22 |
| 64 | Synthesis and characterization of undoped and Fe(III) ions doped NaCaAlPO4F3 phosphor. Journal of Luminescence, 2014, 145, 324-329. | 1.5 | 21 |
| 65 | Influence of calcination temperature on Cd0.3Co0.7Fe2O4 nanoparticles: Structural, thermal and magnetic properties. Journal of Magnetism and Magnetic Materials, 2015, 394, 70-76. | 1.0 | 21 |
| 66 | Effect of noble metal ions dopants on solar photoelectrochemical water splitting and electrochemical supercapacitive performance of BiVO4 hollow tubes. Solar Energy Materials and Solar Cells, 2021, 226, 111056. | 3.0 | 21 |
| 67 | Synthesis, structural and optical properties of CdS nanoparticles with enhanced photocatalytic activities by photodegradation of organic dye molecules. Journal of Materials Science: Materials in Electronics, 2016, 27, 7799-7808. | 1.1 | 19 |
| 68 | Synthesis of CdO/ZnS heterojunction for photodegradation of organic dye molecules. Applied Physics A: Materials Science and Processing, 2017, 123, 1. | 1.1 | 18 |
| 69 | Physical and Spectral Investigations of Cu2+-Doped Alkali Zinc Borate Glasses. Applied Magnetic Resonance, 2011, 40, 339-350. | 0.6 | 17 |
| 70 | Solution combustion synthesis of SnO2–NiO p–n heterojunction nanocomposite for photocatalytic application. Journal of Materials Science: Materials in Electronics, 2018, 29, 16988-16996. | 1.1 | 16 |
| 71 | Synthesis and spectral characterizations of Fe3+ doped β-BaB2O4 nano crystallite powder. Journal of Molecular Structure, 2012, 1012, 17-21. | 1.8 | 15 |
| 72 | A systematic study of annealing environment and Al dopant effect on NASICON-type LiZr2(PO4)3 solid electrolyte. Ionics, 2020, 26, 4287-4298. | 1.2 | 15 |

CH VENKATA REDDY

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|----|---|------------------|-----------|
| 73 | Spectroscopic studies on Fe3+ and Mn2+ doped SrB4O7 glasses. Physica B: Condensed Matter, 2011, 406, 3295-3298. | 1.3 | 14 |
| 74 | Spectral investigations of Cu ²⁺ doped beta-barium borate nanopowder by the co-precipitation method. Physica Scripta, 2011, 84, 025602. | 1.2 | 14 |
| 75 | Effect of Co2+ and Ni2+-doped zinc borate nano crystalline powders by co-precipitation method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 142, 279-285. | 2.0 | 14 |
| 76 | A facile synthesis and spectral characterization of Cu2+ doped CdO/ZnS nanocomposite. Journal of Magnetism and Magnetic Materials, 2015, 384, 6-12. | 1.0 | 14 |
| 77 | Effect of calcination temperature on cobalt substituted cadmium ferrite nanoparticles. Journal of Materials Science: Materials in Electronics, 2015, 26, 5078-5084. | 1.1 | 14 |
| 78 | Structural and optical properties of Fe-doped SnO ₂ quantum dots. Materials Research Express, 2017, 4, 125021. | 0.8 | 14 |
| 79 | Structural, optical, magnetic and thermal investigations on Cr3+ ions doped ZnS nanocrystals by co-precipitation method. Journal of Science: Advanced Materials and Devices, 2019, 4, 260-266. | 1.5 | 14 |
| 80 | Cobalt Nanoparticle-Embedded Nitrogen-Doped Carbon Catalyst Derived from a Solid-State Metal-Organic Framework Complex for OER and HER Electrocatalysis. Energies, 2021, 14, 1320. | 1.6 | 14 |
| 81 | Synthesis and optical properties of Co2+ and Ni2+ ions doped \hat{I}^2 -BaB2O4 nanopowders. Journal of Luminescence, 2012, 132, 2325-2329. | 1.5 | 13 |
| 82 | A stable novel nanostructure of ZnFe2O4 based nanocomposite for improved photoelectrocatalytic and photocatalytic activities. Journal of Electroanalytical Chemistry, 2018, 823, 517-526. | 1.9 | 13 |
| 83 | Synthesis and spectroscopic characterization of Mn(II) doped organic amine templated chlorocadmiumphosphate CdHPO4Cl · [H3N(CH2)6NH3]0.5 crystals. Journal of Coordination Chemist 2011, 64, 4276-4285. | try. 0. 8 | 12 |
| 84 | Structural investigations on Cu2+ ions doped ZnCdO nanopowder. Journal of Molecular Structure, 2013, 1034, 57-61. | 1.8 | 11 |
| 85 | Recent Progress in TiO2- and ZnO-Based Nanostructured Hybrid Photocatalysts for Water Purification and Hydrogen Generation. , 2019, , 815-843. | | 11 |
| 86 | Effect of a novel one-dimensional zinc tungsten oxide nanorods anchored two-dimensional graphitic carbon nitride nanosheets for improved solar-light-driven photocatalytic removal of toxic pollutants and photoelectrochemical water splitting. Journal of Materials Science: Materials in Electronics, 2021, 32, 33-46. | 1.1 | 11 |
| 87 | Spectral investigations of Mn2+ doped Zn3(BO3)2 nanopowder. Journal of Molecular Structure, 2013, 1048, 64-68. | 1.8 | 10 |
| 88 | Structural and photoluminescence studies of Co2+ doped Ca–Li hydroxyapatite nanopowders. Journal of Materials Science: Materials in Electronics, 2015, 26, 6667-6675. | 1.1 | 10 |
| 89 | Nickel-doped ZnO structures for efficient water splitting under visible light. Materials Research Express, 2019, 6, 055517. | 0.8 | 10 |
| 90 | Synthesis and spectroscopic characterization of Cu(II) containing chlorocadmiumphosphate Cd(HPO4)Cl·[H3N(CH2)6NH3]0.5 crystals. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 85, 160-164. | 2.0 | 9 |

Ch Venkata Reddy

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| 91 | Effect of temperature on structural, morphological and magnetic properties of Cd0.7Co0.3Fe2O4 nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 393, 132-138. | 1.0 | 9 |
| 92 | Structural Properties of Cr3+-Doped Cadmium Oxide Nanopowders. Applied Magnetic Resonance, 2012, 42, 403-411. | 0.6 | 8 |
| 93 | Synthesis and spectroscopic studies of Fe3+-doped zinc borate powder. Journal of Molecular Structure, 2015, 1081, 311-315. | 1.8 | 8 |
| 94 | Systematic studies of Bi2O3 hierarchical nanostructural and plasmonic effect on photoelectrochemical activity under visible light irradiation. Ceramics International, 2019, 45, 16784-16791. | 2.3 | 7 |
| 95 | Cu2+ and Y3+ co-doped effect on morphology, structural, optical and photoelectrochemical properties of Fe2O3 photoanode. Journal of Electroanalytical Chemistry, 2020, 878, 114692. | 1.9 | 7 |
| 96 | A novel green-emitting Ni2+-doped Ca-Li hydroxyapatite nanopowders: structural, optical, and photoluminescence properties. Journal of Materials Science: Materials in Electronics, 2020, 31, 5097-5106. | 1.1 | 7 |
| 97 | Structural and spectral features of Cr3+ doped β-BaB2O4 nanopowder by co-precipitation method. Physica B: Condensed Matter, 2013, 429, 18-23. | 1.3 | 6 |
| 98 | Structural, spectral, magnetic and thermal properties of VO2+ doped ZnS nanocrystals by co-precipitation method. Journal of Materials Science: Materials in Electronics, 2018, 29, 6105-6112. | 1.1 | 6 |
| 99 | Room temperature synthesis and spectral characterization of Cu2+-doped CdO powder. Indian Journal of Physics, 2016, 90, 359-364. | 0.9 | 5 |
| 100 | An efficient and room temperature synthesis of Fe3+ doped chlorocadmiumphosphate molecular sieves: Spectroscopic, thermal and powder XRD investigations. Inorganic Chemistry Communication, 2011, 14, 1048-1051. | 1.8 | 4 |
| 101 | Synthesis and spectroscopic characterizations of copper ions doped zinc borate nanoparticles. Optik, 2016, 127, 4536-4540. | 1.4 | 4 |
| 102 | Morphological and chemical structure of silver-doped barium strontium titanate thin films fabricated via pulsed laser deposition. Materials Research Express, 2017, 4, 076406. | 0.8 | 4 |
| 103 | Investigations on structural and spectral properties of undoped and Mn2+ doped SrZn2(PO4)2 nanophosphors for light emitting devices. Journal of Materials Science: Materials in Electronics, 2019, 30, 5120-5129. | 1.1 | 4 |
| 104 | Structural, optical, and luminescence properties of Cu ²⁺ -doped Ca-Li hydroxyapatite nanopowders prepared by mechanochemical synthesis. Materials Research Express, 2019, , . | 0.8 | 3 |
| 105 | Oxygen pressure effect on optical properties and dye degradation of ZnO nanostructured films prepared by sputtering. Materials Research Express, 2017, 4, 095003. | 0.8 | 3 |
| 106 | Structural and Spectral Characterization of Co2+- and Ni2+-DOPED CdO Powder Prepared From Solution at Room Temperature. Journal of Applied Spectroscopy, 2015, 82, 760-766. | 0.3 | 2 |
| 107 | Fabrication of tunable hierarchical ZnO nanostructures via an anodization process. Materials Letters, 2022, 314, 131890. | 1.3 | 2 |
| 108 | Room temperature synthesis and spectral characterizations of Fe3+-doped CdO powder. Journal of Molecular Structure, 2014, 1075, 365-369. | 1.8 | 1 |

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|-----|---|----|-----------|
| 109 | Structural and magnetic properties of Co <inf>0.5</inf> Cd <inf>0.5</inf> Fe <inf>2</inf> O <inf>4</inf> nano ferrite particles. , 2013, , . | | 0 |