

# Undefined A KantÃ¼rk Figen

## List of Publications by Year in descending order

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62  
papers

994  
citations

471509

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477307

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65  
docs citations

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times ranked

1003  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                 | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Capacity of Ammonia Borane to Store Hydrogen. , 2022, , 357-365.                                                                                                                                                                        |     | 1         |
| 2  | Sodium borohydride hydrolysis-mediated hydrogenation of carbon dioxide, towards a two-step production of formic acid. International Journal of Hydrogen Energy, 2022, 47, 26490-26500.                                                  | 7.1 | 3         |
| 3  | Boron-doped Cobalt nanoparticles anchored to different activated carbon supports as recyclable catalysts for enhanced alkyl-substituted amine boranes dehydrogenation. International Journal of Hydrogen Energy, 2022, 47, 40286-40303. | 7.1 | 3         |
| 4  | Catalytic semi-continuous operation modes for hydrogen generation from carbon derivatives of ammonia boranes. International Journal of Hydrogen Energy, 2022, 47, 40304-40316.                                                          | 7.1 | 2         |
| 5  | Semi-continuous regime for continuous hydrogen production from sodium borohydride methanolytic dehydrogenation. Polyhedron, 2021, 194, 114920.                                                                                          | 2.2 | 5         |
| 6  | Comparative evaluation of boron distribution from ulexite, colemanite and DOT rods in Scots pine wood. Journal of Forestry Research, 2021, 32, 419-426.                                                                                 | 3.6 | 2         |
| 7  | Nano-casting procedure for catalytic cobalt oxide bead preparation from calcium-alginate capsules: Activity in ammonia borane hydrolysis reaction. Applied Materials Today, 2021, 22, 100952.                                           | 4.3 | 9         |
| 8  | Hydro-catalytic treatment of organoamine boranes for efficient thermal dehydrogenation for hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 35641-35652.                                                        | 7.1 | 10        |
| 9  | Fabrication of stable electrospun blended chitosan-poly(vinyl alcohol) nanofibers for designing naked-eye colorimetric glucose biosensor based on GOx/HRP. International Journal of Biological Macromolecules, 2021, 192, 999-1012.     | 7.5 | 19        |
| 10 | Movement of boron from ulexite and colemanite minerals in sapwood and heartwood of Cryptomeria japonica. Journal of Forestry Research, 2020, 31, 2597-2603.                                                                             | 3.6 | 1         |
| 11 | Closing the hydrogen cycle with the couple sodium borohydrideâ€methanol, via the formation of sodium tetramethoxyborate and sodium metaborate. International Journal of Energy Research, 2020, 44, 11405-11416.                         | 4.5 | 13        |
| 12 | New manufacturing methodology for boron-based rods for remedial treatments of wood: solubilities and some physical and thermal properties of the rods. SN Applied Sciences, 2020, 2, 1.                                                 | 2.9 | 1         |
| 13 | Reusable hybrid foam catalyst for hydrolytic dehydrogenation of amine adducts of borane: Porous PVA-Immobilized Coâ€Ru nanoparticles. Microporous and Mesoporous Materials, 2020, 305, 110363.                                          | 4.4 | 13        |
| 14 | Ultra-layered sheet Cu Co nanoparticles for optimized application in catalytic reduction of organic dye. Materials Characterization, 2020, 160, 110116.                                                                                 | 4.4 | 7         |
| 15 | Polymeric and metal oxide structured nanofibrous composites fabricated by electrospinning as highly efficient hydrogen evolution catalyst. Journal of Colloid and Interface Science, 2019, 533, 82-94.                                  | 9.4 | 22        |
| 16 | Insight into the role of solvents in enhancing hydrogen production: Ru-Co nanoparticles catalyzed sodium borohydride dehydrogenation. International Journal of Hydrogen Energy, 2019, 44, 28471-28482.                                  | 7.1 | 19        |
| 17 | The Molecular-Kinetic Approach to Hydrolysis of Boron Hydrides for Hydrogen Production. Kinetics and Catalysis, 2019, 60, 37-43.                                                                                                        | 1.0 | 2         |
| 18 | Hydrogen production from sodium borohydride originated compounds: Fabrication of electrospun nano-crystalline Co <sub>3</sub> O <sub>4</sub> catalyst and its activity. International Journal of Hydrogen Energy, 2019, 44, 9883-9895.  | 7.1 | 20        |

| #  | ARTICLE                                                                                                                                                                                                                                                                    | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Improved catalytic performance of metal oxide catalysts fabricated with electrospinning in ammonia borane methanolysis for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28451-28462.                                                   | 7.1  | 15        |
| 20 | Applied ultrasound assisted research on synthesis and in-situ hydrolysis of ammonia borane for hydrogen energy. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 10003-10013.                                                                                   | 7.1  | 10        |
| 21 | Synergetic Effect of Sodium Borohydride Addition in Ammonia Borane Hydrolysis Reaction Mechanism and Kinetics. <i>Kinetics and Catalysis</i> , 2018, 59, 128-135.                                                                                                          | 1.0  | 4         |
| 22 | Cobalt-boron loaded thermal activated Turkish sepiolite composites (Co-B@tSe) as a catalyst for hydrogen delivery. <i>Applied Clay Science</i> , 2018, 153, 95-106.                                                                                                        | 5.2  | 26        |
| 23 | Dual combining transition metal hybrid nanoparticles for ammonia borane hydrolytic dehydrogenation. <i>Applied Catalysis A: General</i> , 2018, 550, 320-330.                                                                                                              | 4.3  | 32        |
| 24 | Recommendations for ammonia borane composite pellets as a hydrogen storage medium. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20354-20371.                                                                                                                | 7.1  | 8         |
| 25 | The remarkable role of metal promoters on the catalytic activity of Co-Cu based nanoparticles for boosting hydrogen evolution: Ammonia borane hydrolysis. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 365-380.                                                  | 20.2 | 74        |
| 26 | Ammonia borane-boron composites for hydrogen release: Thermolysis kinetics. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 613-617.                                                                                            | 2.3  | 5         |
| 27 | Full in-vitro analyses of new-generation bulk fill dental composites cured by halogen light. <i>Materials Science and Engineering C</i> , 2017, 77, 436-445.                                                                                                               | 7.3  | 16        |
| 28 | Devolatilization kinetics of olive leaves with application as a precursor for activated carbon production. <i>Instrumentation Science and Technology</i> , 2017, 45, 440-458.                                                                                              | 1.8  | 1         |
| 29 | Open sun drying of green bean: influence of pretreatments on drying kinetics, colour and rehydration capacity. <i>Heat and Mass Transfer</i> , 2017, 53, 1277-1288.                                                                                                        | 2.1  | 4         |
| 30 | Colemanite: A Fire Retardant Candidate for Wood Plastic Composites. <i>BioResources</i> , 2017, 13, .                                                                                                                                                                      | 1.0  | 12        |
| 31 | The effect of vinegar-acetic acid solution on the hydrogen generation performance of mechanochemically modified Magnesium (Mg) granules. <i>Energy</i> , 2017, 127, 328-334.                                                                                               | 8.8  | 26        |
| 32 | Fabrication of electrospun nanofiber catalysts and ammonia borane hydrogen release efficiency. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 15433-15442.                                                                                                    | 7.1  | 26        |
| 33 | Hydrolysis characteristics of calcium hydride (CaH <sub>2</sub> ) powder in the presence of ethylene glycol, methanol, and ethanol for controllable hydrogen production. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 37-42. | 2.3  | 4         |
| 34 | Hydrogen generation from waste Mg based material in various saline solutions (NiCl <sub>2</sub> , CoCl <sub>2</sub> , CuCl) <i>Tj ETQq0 0 0,rgBT /Overlock 10 Tf</i>                                                                                                       | 7.1  | 69        |
| 35 | Swelling, mechanical and mucoadhesion properties of Mt/starch-g-PMAA nanocomposite hydrogels. <i>Applied Clay Science</i> , 2015, 112-113, 44-52.                                                                                                                          | 5.2  | 52        |
| 36 | Hydrogen production by the hydrolysis of milled waste magnesium scraps in nickel chloride solutions and nickel chloride added in Marmara Sea and Aegean Sea Water. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16169-16177.                                | 7.1  | 35        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                   | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Thermal, spectral, and surface properties of LED light-polymerized bulk fill resin composites. Biomedizinische Technik, 2015, 60, 65-75.                                                                                                                                                  | 0.8 | 0         |
| 38 | Effects of open-air sun drying and pre-treatment on drying characteristics of purslane (Portulaca) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 7                                                                                                                                                  | 2.1 | 10        |
| 39 | Study on the dehydration kinetics of tunellite using non-isothermal methods. Research on Chemical Intermediates, 2015, 41, 1893-1906.                                                                                                                                                     | 2.7 | 4         |
| 40 | Hydrogen desorption kinetics of MgH <sub>2</sub> synthesized from modified waste magnesium. Materials Science-Poland, 2014, 32, 385-390.                                                                                                                                                  | 1.0 | 2         |
| 41 | The use of boric acid (H <sub>3</sub> BO <sub>3</sub> ) and boron oxide (B <sub>2</sub> O <sub>3</sub> ) for co-precipitation synthesis of cobalt-boron catalysts: Catalytic activity in hydrogen generation. Kinetics and Catalysis, 2014, 55, 809-823.                                  | 1.0 | 3         |
| 42 | Sonochemical Approach to Synthesis of Co-B Catalysts and Hydrolysis of Alkaline NaBH <sub>4</sub> Solutions. Journal of Chemistry, 2014, 2014, 1-9.                                                                                                                                       | 1.9 | 8         |
| 43 | Characterization and modification of waste magnesium chip utilized as an Mg-rich intermetallic composite. Particuology, 2014, 17, 158-164.                                                                                                                                                | 3.6 | 10        |
| 44 | Synthesis of nanometric $\beta$ -barium metaborate powder from different borate solutions by ultrasound-assisted precipitation. Research on Chemical Intermediates, 2014, 40, 2103-2117.                                                                                                  | 2.7 | 1         |
| 45 | Thermal properties and kinetics of new-generation posterior bulk fill composite cured light-emitting diodes. Journal of Thermal Analysis and Calorimetry, 2014, 118, 31-42.                                                                                                               | 3.6 | 3         |
| 46 | Solid state preparation and reaction kinetics for Co/B as a catalytic/acidic accelerator for NaBH <sub>4</sub> hydrolysis. Reaction Kinetics, Mechanisms and Catalysis, 2013, 109, 375-392.                                                                                               | 1.7 | 15        |
| 47 | Microwave assisted green chemistry approach of sodium metaborate dihydrate (NaBO <sub>2</sub> ·2H <sub>2</sub> O) synthesis and use as raw material for sodium borohydride (NaBH <sub>4</sub> ) thermochemical production. International Journal of Hydrogen Energy, 2013, 38, 3702-3709. | 7.1 | 19        |
| 48 | Thermal degradation characteristic of Tetra Pak panel boards under inert atmosphere. Korean Journal of Chemical Engineering, 2013, 30, 878-890.                                                                                                                                           | 2.7 | 15        |
| 49 | Synthesis, structural characterization, and hydrolysis of Ammonia Borane (NH <sub>3</sub> BH <sub>3</sub> ) as a hydrogen storage carrier. International Journal of Hydrogen Energy, 2013, 38, 16215-16228.                                                                               | 7.1 | 51        |
| 50 | Investigation of the reaction mechanism and kinetics of production of anhydrous sodium metaborate (NaBO <sub>2</sub> ) by a solid-state reaction. Research on Chemical Intermediates, 2013, 39, 569-583.                                                                                  | 2.7 | 7         |
| 51 | Dehydrogenation characteristics of ammonia borane via boron-based catalysts (Co-B, Ni-B, Cu-B) under different hydrolysis conditions. International Journal of Hydrogen Energy, 2013, 38, 9186-9197.                                                                                      | 7.1 | 73        |
| 52 | A novel perspective for hydrogen generation from ammonia borane (NH <sub>3</sub> BH <sub>3</sub> ) with Co-B catalysts: $\alpha$ -Ultrasonic Hydrolysis. International Journal of Hydrogen Energy, 2013, 38, 2824-2835.                                                                   | 7.1 | 56        |
| 53 | Precipitation method for barium metaborate (BaB <sub>2</sub> O <sub>4</sub> ) synthesis from borax solution. , 2013, , .                                                                                                                                                                  |     | 1         |
| 54 | Process for the conversion of highly caustic spent sodium borohydride fuel. Research on Chemical Intermediates, 2012, 38, 2343-2354.                                                                                                                                                      | 2.7 | 2         |

| #  | ARTICLE                                                                                                                                                                                                                      | IF  | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Mechanism for formation of NaBH <sub>4</sub> proposed as low-pressure process for storing hydrogen in borosilicate glass-sodium solid system: a hydrogen storage material. Bulletin of Materials Science, 2012, 35, 203-209. | 1.7 | 6         |
| 56 | Production of sodium metaborate tetrahydrate (NaB(OH) <sub>4</sub> ·2H <sub>2</sub> O) using ultrasonic irradiation. Powder Technology, 2012, 215-216, 166-173.                                                              | 4.2 | 16        |
| 57 | Devolatilization non-isothermal kinetic analysis of agricultural stalks and application of TG-FT/IR analysis. Journal of Thermal Analysis and Calorimetry, 2012, 107, 1177-1189.                                             | 3.6 | 12        |
| 58 | Structural characterization and dehydration kinetics of Kärka inderite mineral: Application of non-isothermal models. Materials Characterization, 2010, 61, 640-647.                                                         | 4.4 | 13        |
| 59 | Parametric investigation on anhydrous sodium metaborate (NaBO <sub>2</sub> ) synthesis from concentrated tinal. Advanced Powder Technology, 2010, 21, 513-520.                                                               | 4.1 | 24        |
| 60 | Synthesis, crystal structure and dehydration kinetics of NaB(OH) <sub>4</sub> ·2H <sub>2</sub> O. Korean Journal of Chemical Engineering, 2008, 25, 1331-1337.                                                               | 2.7 | 45        |
| 61 | Innovation in sodium borohydride production process from borosilicate glass with sodium under hydrogen atmosphere: â€œhigh pressure processâ€. International Journal of Hydrogen Energy, 2007, 32, 3981-3986.               | 7.1 | 17        |
| 62 | TalaÅŸ Magnezyum AtÄ±ndan Hidrojen GazÄ± Äœeretimi ve HÄ±z Profillerinin Ä°ncelenmesi. Journal of Polytechnic, 0, , .                                                                                                        | 0.7 | 1         |