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template and surfactant free room temperature synthesis of Mar 28 2024

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pt nanoflowers as a highly effective electrocatalyst for *Feb 27 2024*

the pt nf catalyst exhibits high electrocatalytic activity catalytic selectivity and good durability in the electrochemical analysis the pt nf s rapid linear current response to the variation of glucose concentration within a wide range also makes it a promising material for glucose sensors

scalable synthesis of pt nanoflowers on solution processed Jan 26 2024

herein a facile electrochemical synthesis of pt nanoflowers nfs with well defined petals is presented semiconducting mos 2 nanosheets are solution processed into a film on a carbon paper cp to synthesize pt nfs upon reduction of pt precursor

synthesis of ph switchable pt co3o4 nanoflowers catalytic *Dec 25 2023*

synthesis of ph switchable pt co3o4 nanoflowers catalytic mechanism four enzyme activity and smartphone biosensing applications sciencedirect chemical engineering journal volume 437 part 1 1 june 2022 134414 synthesis of ph switchable pt co3o4 nanoflowers catalytic mechanism four enzyme activity and smartphone biosensing applications

recent advances in nanoflowers compositional and structural *Nov 24 2023*

the pt nanoflowers exhibit excellent catalytic activity for glycerol electro oxidation under acidic conditions with higher mass activity and better structural stability than commercial pt c 20 pt indicating their potential utility in direct glycerol fuel cells

hydrophilic pt nanoflowers synthesis crystallographic *Oct 23 2023*

hydrophilic pt nanostructures are efficient catalysts for various reactions such as electrocatalytic oxidation of methanol 15 reduction of oxygen 11 and the suzuki miyaura and heck coupling reactions 16 of much recent interest is the catalytic reduction of 4 nitrophenol 4 np to 4 aminophenol 4 ap not only as a model reaction but also bec

hydrophilic pt nanoflowers synthesis crystallographic Sep 22 2023

water soluble pt nanoflowers nfs were prepared by diethylene glycol mediated reduction of pt acetylacetonate ptijacac 2 in the presence of polyethylenimine advanced electron microscopy analysis received 7th january 2016 accepted 11th april 2016 doi 10 1039 c6ce00039h rsc org crystengcomm

one pot colloidal synthesis of mose2 pt nanoflowers and their Aug 21 2023

17 citations explore all metrics abstract mose 2 pt hybrid nanoflowers were prepared by a one pot hot solution colloidal synthetic method the samples were characterized by various analytical testing techniques and their electrocatalytic hydrogen evolution reaction performance was studied

a facile synthesis of pt nanoflowers composed of an ordered *Jul 20 2023*

abstract platinum nanoflowers pt nfs composed of an ordered assembly of nanoparticles were synthesized by an ethanol reduction of ptcl6 2 under a reflux condition 85 c at ph 2 5 in the presence of pvp molecular weight 10 000 as a structure directing agent

pt nanoflowers as a highly effective electrocatalyst for *Jun 19 2023*

pt nanoflowers as a highly effective electrocatalyst for glucose oxidation in abiotic glucose fuel cells acs appl mater interfaces 2023 mar 29 doi 10 1021 acsami 3c01689 online ahead of print authors xin xu 1 xufeng dong 1 danqing li 2 min qi 1 hao huang 1 affiliations

pt nanoparticle modified sn2o3 nanoflowers with fast response May 18 2023

the structure morphology band gap and specific surface area of the as prepared samples are characterized by various techniques and the effect of the contact between pt nanoparticles and sn 2 o 3 nanoflowers on the sensitivity response recovery time detection limit and selectivity of formaldehyde gas sensing is investigated

pt nanoflower poly aniline electrode material with the Apr 17 2023

pt nanoflower poly aniline electrode material with the synchronized concept of energy storage in supercapacitor v s sumanaad y n sudhakarb anithavarghesec g k nagarajad show more add to mendeley doi org 10 1016 j apsusc 2022 152994get rights and content highlights

one pot water based synthesis of pt pd alloy nanoflowers and *Mar 16 2023*

published 2 may 2013 chemistry materials science journal of physical chemistry c well defined and strikingly monomorphic pt pd alloy nanoflowers pt pd anfs with dominant 111 facets were successfully synthesized through a facile cochemical reduction method in a poly allylamine hydrochloride pah based aqueous solution the

metal organic framework mof au pt nanoflowers composite *Feb 15 2023*

the main advantage of this sensor was that mof au pt nanoflowers material not only had good conductivity to amplify current signal but also the core shell nanoflowers formed by au pt could efficiently catalyze and oxidize h 2 o 2

synthesis and optimization of mos2 fe3o4 icg pt iv *Jan 14 2023*

compared with the other mos 2 based theranostics this work shows the following three main advantages i various sizes of high quality mos 2 nanoflowers with extraordinary surface area to mass ratio can be successfully synthesized which endow them with highly efficient loading of therapeutic molecules such as the fe 3 o 4 tiny nanoparticles

synthesis of zno pt nanoflowers and their photocatalytic *Dec 13 2022*

in order to suppress the electron hole recombination and then raise the photocatalytic efficiency of zno metal nanoparticles have been combined with zno to form zno metal heterostructures in this work the feasibility of synthesizing zno pt composite nanoflowers for optimized catalytic properties was studied

synthesis of zno pt nanoflowers and their photocatalytic *Nov 12 2022*

a zno pt flowerlike nanostructure was formed by selective growth of zno nanolobes at 111 facets of the truncated octahedral pt nanocrystals the resultant nanoflowers had well defined zno pt interfaces and exposed pt 100 facets as confirmed by transmission electron microscopy tem and high resolution tem hrtem measurements

hydrophilic pt nanoflowers synthesis crystallographic *Oct 11 2022*

water soluble pt nanoflowers nfs were prepared by diethylene glycol mediated reduction of pt acetylacetonate pt acac 2 in the presence of polyethylenimine advanced electron microscopy analysis showed that the nfs consist of multiple branches with a truncated cubic morphology and different crystallographic orientations

a fluorescence electrochemical dual mode aptasensor based on Sep 10 2022

herein a study for the first application of a hybridization chain reaction a 1 8 naphthalimides dna nds intercalator and dna dependent prussian blue nanoflowers ptpd materials pbnfs ptpd in the development of a fluorescence electrochemical fl ec aptasensor this construction establishes an

applied sciences free full text mose2 with ultra fine pt *Aug 09 2022*

transition metal dichalcogenides are widely studied for their photocatalytic ability due to the adjustable bandgap high carrier mobility and possibility of foreign element doping in this work multilayer molybdenum diselenide mose2 was decorated with ultra fine pt nanoparticles through the mild hydrothermal method mose2 pt nanocomposites were synthesized and showed good structural and

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