

ISSN 1001-0521 · e-ISSN 1867-7185
CN 11-2112/TF · CODEN RARME 8

Volume 38 · Number 5 · May 2019

RARE METALS

www.editorialmanager.com/rmet

稀有金属 (英文版)



PIJ
Project for Enhancing International
Impact of China STM Journals

万方数据

 Springer

Special Issue: Photocatalysis

Guest Editors: Tie-Rui Zhang · Gang Liu · Yong-Fa Zhu

Editorial for rare metals, special issue on photocatalysis

T.-R. Zhang · G. Liu · Y.-F. Zhu 359

Monolith free-standing plasmonic PAN/Ag/AgX (X = Br, I) nanofiber mat as easily recoverable visible-light-driven photocatalyst

M.-M. Ping · S.-J. Qiu · G.-J. Wei · J.-X. Liu · Z.-J. Wang · S.-T. Wang · C.-H. An 361

Single-crystal TiO₂/SrTiO₃ core-shell heterostructured nanowire arrays for enhanced photoelectrochemical performance

Y. Chen · S. Li · R.-Y. Zhao · W. Li · Z.-H. Ren · G.-R. Han 369

Magnetic separation of metal sulfides/oxides by Fe₃O₄ at room temperature and atmospheric pressure

J.-H. Ji · Y.-F. Xiao · B. Shen · Q.-Y. Yi · J.-L. Zhang · M.-Y. Xing 379

Controllable synthesis and tunable photocatalytic activity of TiO₂ nanowires via alcohol-thermal method

Z.-X. Xu · A.-Q. Wang · Y.-F. Zhu 390

Two-dimensional Sn₂Ta₂O₇ nanosheets as efficient visible light-driven photocatalysts for hydrogen evolution

X.-S. Wang · C. Zhou · R. Shi · Q.-Q. Liu · T.-R. Zhang 397

TiO₂ sensitized by red-, green-, blue-emissive carbon dots for enhanced H₂ production

D.-X. Yang · D. Qu · X. Miao · W.-S. Jiang · L. An · Y.-J. Wen · D.-D. Wu · Z.-C. Sun 404

Bifunctional metal-organic frameworks toward photocatalytic CO₂ reduction by post-synthetic ligand exchange

X.-H. Chen · Q. Wei · J.-D. Hong · R. Xu · T.-H. Zhou 413

Synthesis of TiO₂@ZnIn₂S₄ hollow nanospheres with enhanced photocatalytic hydrogen evolution

H. Li · Z.-H. Chen · L. Zhao · G.-D. Yang 420

Preparation of CuS/BiVO₄ thin film and its efficacious photoelectrochemical performance in hydrogen generation

Y. Li · Y. Yang · J.-W. Huang · L. Wang · H.-D. She · J.-B. Zhong · Q.-Z. Wang 428

Synergetic effect of BiOCl/Bi₁₂O₁₇Cl₂ and MoS₂: in situ DRIFTS investigation on photocatalytic NO oxidation pathway

W.-D. Zhang · X.-A. Dong · Y. Liang · R. Liu · Y.-J. Sun · F. Dong 437

Photoelectrochemical properties of BiVO₄ thin films with NaOH chemical treatment

D.-D. Lv · J.-F. Liu · Z. Zhang · Y.-Y. Ma · Y. Liang · Z.-T. Zhou · W.-C. Hao 446

Preparation of 3D ordered mesoporous anatase TiO₂ and their photocatalytic activity

H.-L. Tang · Y. Ren · S.-H. Wei · G. Liu · X.-X. Xu 453

Facile synthesis of Zn(II)-doped g-C₃N₄ and their enhanced photocatalytic activity under visible light irradiation

Z.-T. Wang · J.-L. Xu · H. Zhou · X. Zhang 459

Improvement of photocatalytic activity of high specific surface area graphitic carbon nitride by loading a co-catalyst

Y. Chen · N. Murakami · H.-Y. Chen · J. Sun · Q.-T. Zhang · Z.-F. Wang · T. Ohno · M. Zhang 468

Cover Picture

M.-M. Ping, et al. Monolith free-standing plasmonic PAN/Ag/AgX (X = Br, I) nanofiber mat as easily recoverable visible-light-driven photocatalyst

Further articles can be found at link.springer.com

Instructions for Authors for *Rare Met.* are available at www.springer.com/12598



Special Issue: Photocatalysis

Guest Editors: Tie-Rui Zhang · Gang Liu · Yong-Fa Zhu

Editorial for rare metals, special issue on photocatalysis

T.-R. Zhang · G. Liu · Y.-F. Zhu 359

Monolith free-standing plasmonic PAN/Ag/AgX (X = Br, I) nanofiber mat as easily recoverable visible-light-driven photocatalyst

M.-M. Ping · S.-J. Qiu · G.-J. Wei · J.-X. Liu · Z.-J. Wang · S.-T. Wang · C.-H. An 361

Single-crystal TiO₂/SrTiO₃ core-shell heterostructured nanowire arrays for enhanced photoelectrochemical performance

Y. Chen · S. Li · R.-Y. Zhao · W. Li · Z.-H. Ren · G.-R. Han 369

Magnetic separation of metal sulfides/oxides by Fe₃O₄ at room temperature and atmospheric pressure

J.-H. Ji · Y.-F. Xiao · B. Shen · Q.-Y. Yi · J.-L. Zhang · M.-Y. Xing 379

Controllable synthesis and tunable photocatalytic activity of TiO₂ nanowires via alcohol-thermal method

Z.-X. Xu · A.-Q. Wang · Y.-F. Zhu 390

Two-dimensional Sn₂Ta₂O₇ nanosheets as efficient visible light-driven photocatalysts for hydrogen evolution

X.-S. Wang · C. Zhou · R. Shi · Q.-Q. Liu · T.-R. Zhang 397

TiO₂ sensitized by red-, green-, blue-emissive carbon dots for enhanced H₂ production

D.-X. Yang · D. Qu · X. Miao · W.-S. Jiang · L. An · Y.-J. Wen · D.-D. Wu · Z.-C. Sun 404

Bifunctional metal-organic frameworks toward photocatalytic CO₂ reduction by post-synthetic ligand exchange

X.-H. Chen · Q. Wei · J.-D. Hong · R. Xu · T.-H. Zhou 413

Synthesis of TiO₂@ZnIn₂S₄ hollow nanospheres with enhanced photocatalytic hydrogen evolution

H. Li · Z.-H. Chen · L. Zhao · G.-D. Yang 420

Preparation of CuS/BiVO₄ thin film and its efficacious photoelectrochemical performance in hydrogen generation

Y. Li · Y. Yang · J.-W. Huang · L. Wang · H.-D. She · J.-B. Zhong · Q.-Z. Wang 428

Synergetic effect of BiOCl/Bi₁₂O₁₇Cl₂ and MoS₂: in situ DRIFTS investigation on photocatalytic NO oxidation pathway

W.-D. Zhang · X.-A. Dong · Y. Liang · R. Liu · Y.-J. Sun · F. Dong 437

Photoelectrochemical properties of BiVO₄ thin films with NaOH chemical treatment

D.-D. Lv · J.-F. Liu · Z. Zhang · Y.-Y. Ma · Y. Liang · Z.-T. Zhou · W.-C. Hao 446

Preparation of 3D ordered mesoporous anatase TiO₂ and their photocatalytic activity

H.-L. Tang · Y. Ren · S.-H. Wei · G. Liu · X.-X. Xu 453

Facile synthesis of Zn(II)-doped g-C₃N₄ and their enhanced photocatalytic activity under visible light irradiation

Z.-T. Wang · J.-L. Xu · H. Zhou · X. Zhang 459

Improvement of photocatalytic activity of high specific surface area graphitic carbon nitride by loading a co-catalyst

Y. Chen · N. Murakami · H.-Y. Chen · J. Sun · Q.-T. Zhang · Z.-F. Wang · T. Ohno · M. Zhang 468

Cover Picture

M.-M. Ping, et al. Monolith free-standing plasmonic PAN/Ag/AgX (X = Br, I) nanofiber mat as easily recoverable visible-light-driven photocatalyst

Further articles can be found at link.springer.com

Instructions for Authors for *Rare Met.* are available at www.springer.com/12598

