

Supporting research integrity: indicating **article status** from any point of discovery



Kendall Bartsch
CEO | Co-founder
Third Iron, LLC
kendall@thirdiron.com

Company focus: LibKey intelligent access



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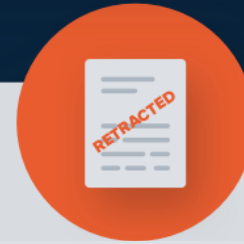
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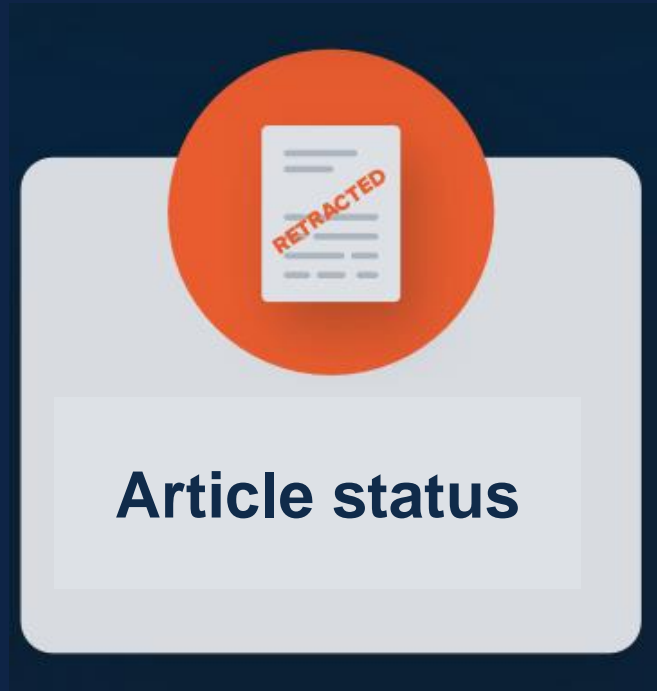


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Universal application



Article level intelligence: **article status**



Significant concerns over proliferation of poor scholarship through the citation of articles that have been retracted, labeled with an expression of concern, or published in problematic journals

Article status: **first order** retraction



- Steady growth of article retractions over the last year, a record 14,000 last year (compared to 1,000 in 2009)
- Retraction identification has become better but is still uneven
- User awareness depends on article retrieval date, point of discovery and other factors
- Citation leads to “pollution” in the scholarly record

“Feet of clay”: second order retraction

Applied Surface Science
Volume 458, 15 November 2018, Pages 880-892

Full Length Article

The triple-component Ag_3PO_4 - CoFe_2O_4 -GO synthesis and visible light photocatalytic performance

Zhiyuan Liu^a, Hange Feng^a, Shaolin Xue^a, Pei Xie^{a,b}, Lingwei Li^a, Xin Hou^a, Jibin Gong^a, Xiaofan Wei^a, Jingxian Huang^a, Dajun Wu^{c,d}

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Highlights

“Although the act of retracting flawed articles helps purge the scientific literature of erroneous or unethical research, citations to such research after it’s been retracted, *presents a real challenge to the integrity of the scientific endeavor.*”

Bar-Ilan J, Halevi G. Post retraction citations in context: a case study. *Scientometrics*. 2017;113(1) 547-656

Cited references



10 most highly cited retracted articles

Article	Year of Retraction	Citations Before Retraction
Pluripotency of mesenchymal stem cells derived from adult. Nature. June 20, 2002.	2024	4482
6-month consequences of COVID-19 in patients discharged from hospital: a cohort study. Lancet. January 8, 2021.	2023	2250
Primary Prevention of Cardiovascular Disease with a Mediterranean Diet. New England Journal of Medicine. April 4, 2013	2018	1695
A specific amyloid- β protein assembly in the brain impairs memory. Nature. March 16, 2008	2024	2348
Predictive Validity of a Medication Adherence Measure in an Outpatient Setting. The Journal of Clinical Hypertension. May 2, 2008.	2023	1929
MicroRNA signatures of tumor-derived exosomes as diagnostic biomarkers of ovarian cancer. Gynecologic Oncology. June 25, 2008	2023	1865
Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children. Lancet. February 28, 1998	2010	542
Recent progress in processing and properties of ZnO. Progress in Materials Science. May 28, 2004	2020	1550
Visfatin: A protein secreted by visceral fat that mimics the effects of insulin. Science. January 21, 2005	2007	232
An enhanced transient expression system in plants based on suppression of gene silencing by the p19 protein of tomato bushy stunt virus. Plant Journal. February 28, 2003	2015	895



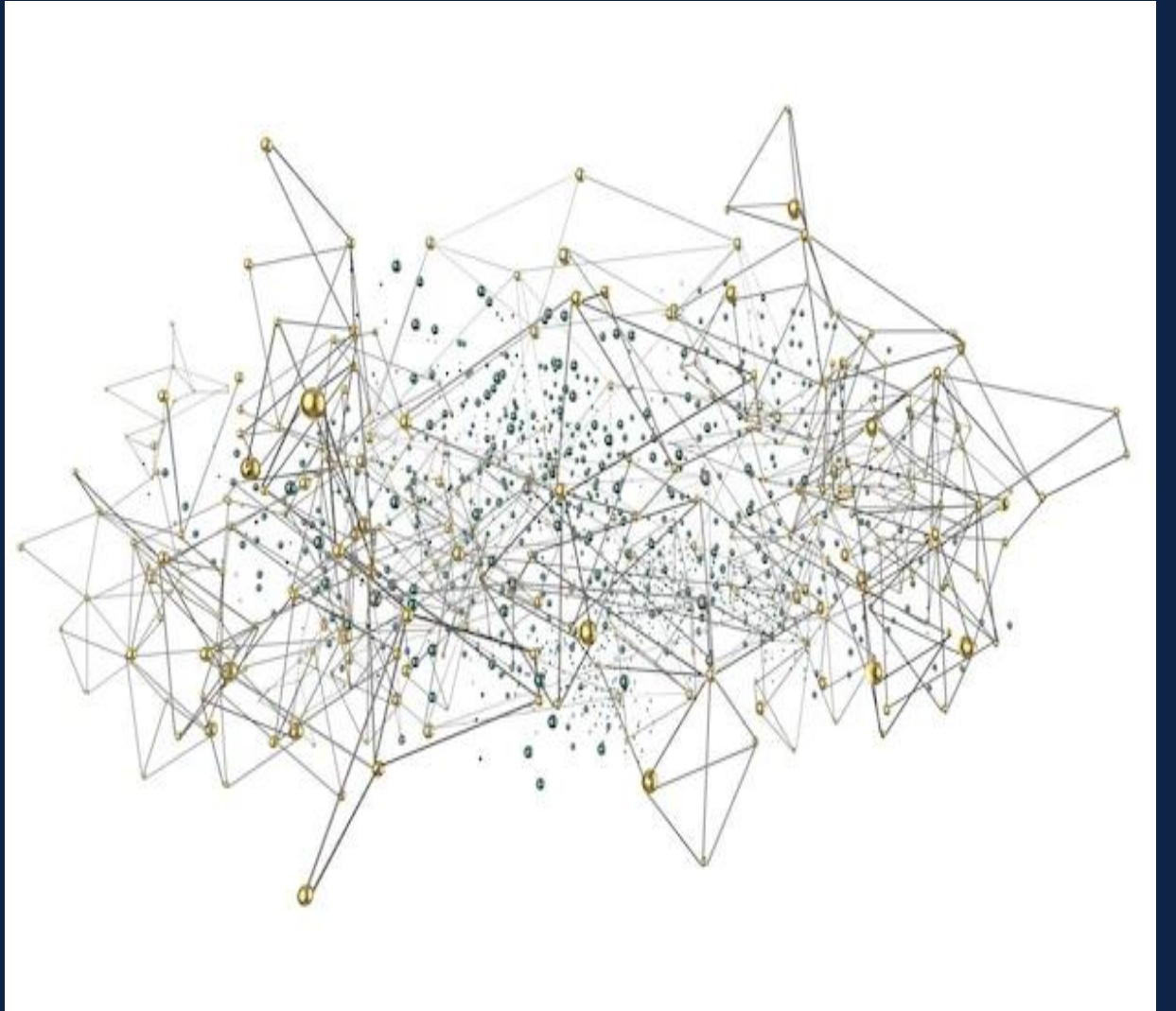
Problematic journals



- Lack of peer review
- Profit driven
- Harm to academic careers
- Misinformation

Third Iron: detailed **article status** data

- Consulting multiple data sources
- Editorially managing article metadata for consistent identification
- Connecting first order retractions to citations to create second order retraction map
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First order retraction notification – open web

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January 2014 · *Journal of Clinical Microbiology*, 52(2)
DOI: [10.1128/JCM.02925-13](https://doi.org/10.1128/JCM.02925-13)
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Huimin Liu · Yutian Wang · Jing Yan · [Show all 5 authors](#) · He Hongxuan

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Abstract

Rhodococcus equi is a major cause of pneumonia in domestic animals, especially foals, and an opportunistic pathogen of immunocompromised humans (1)...

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Journal of Clinical Microbiology
Liu, Huimin; Wang, Yutian; Yan, Jing; Wang, Qiang; He, Hongxuan
Vol. 52 Issue 2, p. 763, 2014

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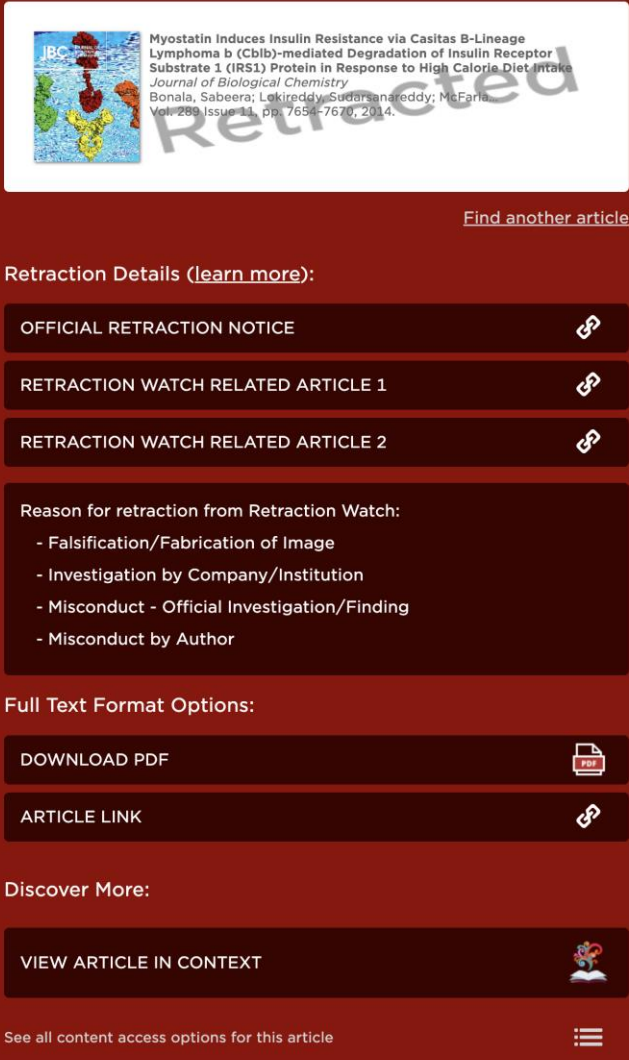
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Bonala, Sabeera ; Lokireddy, Sudarsanareddy ; McFarlane, Craig ; Patn...
United States: Elsevier Inc
The Journal of biological chemistry, 2014, Vol.289 (11), p.7654-7670

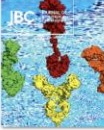
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Bonala, Sabeera; Lokireddy, Sudarsanareddy; McFarlane, Craig; Patn...
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

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Sainju, Upendra M; Hu, Shuijin
PloS one, 2016, Vol.11 (2), p.e0148527

“ Management practices, such as tillage, crop rotation, and N fertilization, may affect net global warming potential (GWP...”

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A Global Meta-Analysis on the Impact of Management Practices on Net Global Warming Potential and Greenhouse Gas Intensity from Cropland Soils
PLOS ONE
Sainju, Upendra M.
Vol. 11 Issue 2, p. e0148527, 2016.


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Second order retraction: **current experience**

ARTICLE

The triple-component Ag₃PO₄-CoFe₂O₄-GO synthesis and visible light photocatalytic performance

Liu, Zhiyuan ; Feng, Hange ; Xue, Shaolin ; Xie, Pei ; Li, Lingwei ; Hou, Xin ; Gong, Jibin ; Wei, Xiaofan ; Huang, Jingxian ; Wu, Dajun

Applied surface science, 2018-11, Vol.458, p.880-892

“ ... This paper introduces a novel triple-component silver phosphate-cobalt ferrite-graphene oxide (Ag₃PO₄-CoFe₂O₄-GO...”

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Researchers are unaware that articles they are interested in have cited retracted articles, further compounding the problem of retraction

Applied Surface Science 458 (2018) 880–892

Contents lists available at ScienceDirect

Applied Surface Science

journal homepage: www.elsevier.com/locate/apsusc

Full Length Article

The triple-component Ag₃PO₄-CoFe₂O₄-GO synthesis and visible light photocatalytic performance

Zhiyuan Liu^a, Hange Feng^a, Shaolin Xue^{a,*}, Pei Xie^{a,b}, Lingwei Li^a, Xin Hou^a, Jibin Gong^a, Xiaofan Wei^a, Jingxian Huang^a, Dajun Wu^{c,d}

^a College of Science, Donghua University, Shanghai 201620, China
^b School of Information Science and Technology, Donghua University, Shanghai 201620, China
^c Key Laboratory of Polar Materials and Devices, Ministry of Education, and Department of Electronic Engineering, East China Normal University, 500 Dongchuan Road, Shanghai 200241, China
^d School of Physics and Electronic Engineering, Changshu Institute of Technology, Suzhou 215500, China

ARTICLE INFO

Keywords:
Photocatalysis
Silver phosphate
Cobalt ferrite
Graphene oxide
Degradation
Sterilization

ABSTRACT

This paper introduces a novel triple-component silver phosphate-cobalt ferrite-graphene oxide (Ag₃PO₄-CoFe₂O₄-GO) photocatalyst, illustrates its synthetic principle of adjusting the pH value, elaborates on its dual-channel reaction mechanism and reveals its advantages. Morphology and elementary analyses revealed that the magnetic CoFe₂O₄ nanoparticles (NPs) and the GO were uniformly adorned on the Ag₃PO₄ particles' surface, forming a spherical structure. Because of this particular structure, not only could the Ag₃PO₄-CoFe₂O₄-GO composite be thoroughly removed with magnet field from treated water, but the photocatalytic activity and stability had been greatly improved to pure Ag₃PO₄. The effects of different samples were also evaluated, in terms of the efficiencies in inactivation and degradation. The reactive oxygen species (ROS) yield measurements and photoluminescence spectra analysis indicated that O₂ adsorption could be promoted by the CoFe₂O₄ and the GO. Upon visible light irradiation, a part of motivated electrons of the Ag₃PO₄ were consumed by the CoFe₂O₄, and others were transferred to the GO. The effective electron-hole separation is due to the dual transfer channel existing in the Ag₃PO₄-CoFe₂O₄-GO composite. Hence, the dual transfer channel is the major reason for enhancing photocatalytic activity and stability.

1. Introduction

With the development of novel photocatalyst for solar-energy conversion, more and more articles pay much attention to the highly efficient and lower-cost photocatalyst in purifying water and protecting the environment under light irradiation [1–4]. In the past, TiO₂ based semiconductors had been considered as a clearly superior option, on account of the high stability, non-toxicity and high electron mobility [5–7]. Though these semiconductors are effectual, we can't ignore a problem of TiO₂ possessing a relatively large value of band gap [8]. It

been regarded as an outstanding candidate for the photocatalyst, on account of exhibiting extremely high quantum efficiency and low band gap (2.45 eV) in many photocatalytic fields [10]. Nonetheless, researchers also suffer from many disadvantages of using Ag₃PO₄. The slight solubility of Ag₃PO₄ prevents it from being employed under long-time light irradiation, influencing its repeated use [11]. The appropriate heterojunction which is formed through combining with another semiconductor can reduce the solubility of Ag₃PO₄ [12–14]. The heterojunction raises photoexcited charges separation efficiency, hindering the recombination to improve the stability of Ag₃PO₄. At the same time,

Second order retraction

1  ARTICLE
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Liu, Zhiyuan ; Feng, Hange ; Xue, Shaolin ; Xie, Pei ; Li, Lijuan ; Jingxian ; Wu, Dajun
Applied surface science, 2018-11, Vol.458, p.880-892
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Liu, Zhiyuan; Feng, Hange; Xue, Shaolin; Xie, Pei; Li, Lijuan
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The triple-component Ag₃PO₄-CoFe₂O₄-GO synthesis and visible light photocatalytic performance

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^a College of Science, Donghua University, Shanghai 201620, China
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^c Key Laboratory of Polar Materials and Devices, Ministry of Education, and Department of Electronic Engineering, East China Normal University, 500 Dongchuan Road, Shanghai 200241, China
^d School of Physics and Electronic Engineering, Changsha Institute of Technology, Shaohu 215500, China

ARTICLE INFO

Keywords:
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Silver phosphate
Cobalt ferrite
Graphene oxide
Degradation
Stabilization

ABSTRACT
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An Uncommon Case of Atrial Fibrillation due to a Lung Mass Invasion of the Left...

by Rahman, Ali; Alqaisi, Sura; Krishnaswamy, Shiv ;
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Cardiology research, 02/2023, Volume 14, Issue 1

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An Uncommon Case of Atrial Fibrillation due to a Lung Mass Invasion of the Left Atrial Cavity



Ali Rahman ¹, Sura Alqaisi ¹, Shiv Krishnaswamy ¹, Emilio Hospedales ², Walif Aji ³

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PMID: 36896222 PMID: PMC9990543 DOI: 10.14740/cr1473



An Uncommon Case of Atrial Fibrillation due to a Lung Mass Invasion of the Left Atrial Cavity
Cardiology Research
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Vol. 14 Issue 1, pp: 79-85, 2023.

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- Abstract
- Keywords
- Citation
- Introduction
- Incidence, Presentation And Treatment
- Treatment Strategies
- Summary
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Periprosthetic Infections of the Shoulder: Current Concepts

Review Article | Open Access | Volume 8 | Issue 1
Article DOI : <https://doi.org/10.47739/2373-9290/1096>

Jason Scalise, MD^{1*}
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Corresponding Authors
Jason Scalise, MD, The CORE Institute, 18444 N. 25th Ave:#320,Phoenix AZ 85023, USA

Abstract

Although rare, periprosthetic infection of the shoulder is a serious event resulting in inferior clinical outcomes. Infections about the shoulder present unique diagnostic challenges owing to the relative high frequency of lower virulent organisms which often have subtle and modest clinical presentations and diagnostic findings. Success of treatment depends on micro-organism identification, appropriate surgical procedures and appropriate antibiotic therapy. Early periprosthetic shoulder infection can be treated with debridement and exchange of modular components, while chronic PSI requires a one-stage or two-stage revision procedure. Indications for a one-stage revision procedure are evolving but have demonstrated promising results in initial studies. Two-stage revision procedures are more common and demonstrate favorable survival rates. Resection arthroplasty remains an option for lower-demand patients or recalcitrant infection. The surgeons should understand the diagnostic and treatment strategies that are most likely to have the most favorable outcome for patients with a periprosthetic shoulder infection.

Keywords

• Shoulder arthroplasty; Prosthetic infection; Revision arthroplasty

Citation

Scalise J (2021) Periprosthetic Infections of the Shoulder: Current Concepts. Ann Orthop Rheumatol 8(1): 1096.

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Received : 24 Jun 2021
Accepted : 23 Jul 2021
Published : 27 Jul 2021

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239	2,572
1104	2,507
451	2,499

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1562	20,173
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591	6,799
871	4,754
451	3,693
1704	3,466
1498	3,342

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Thank you!

Kendall Bartsch
CEO | Co-founder
Third Iron, LLC
kendall@thirdiron.com