



**Prof. HENDRY IZAAC ELIM, Ph.D**



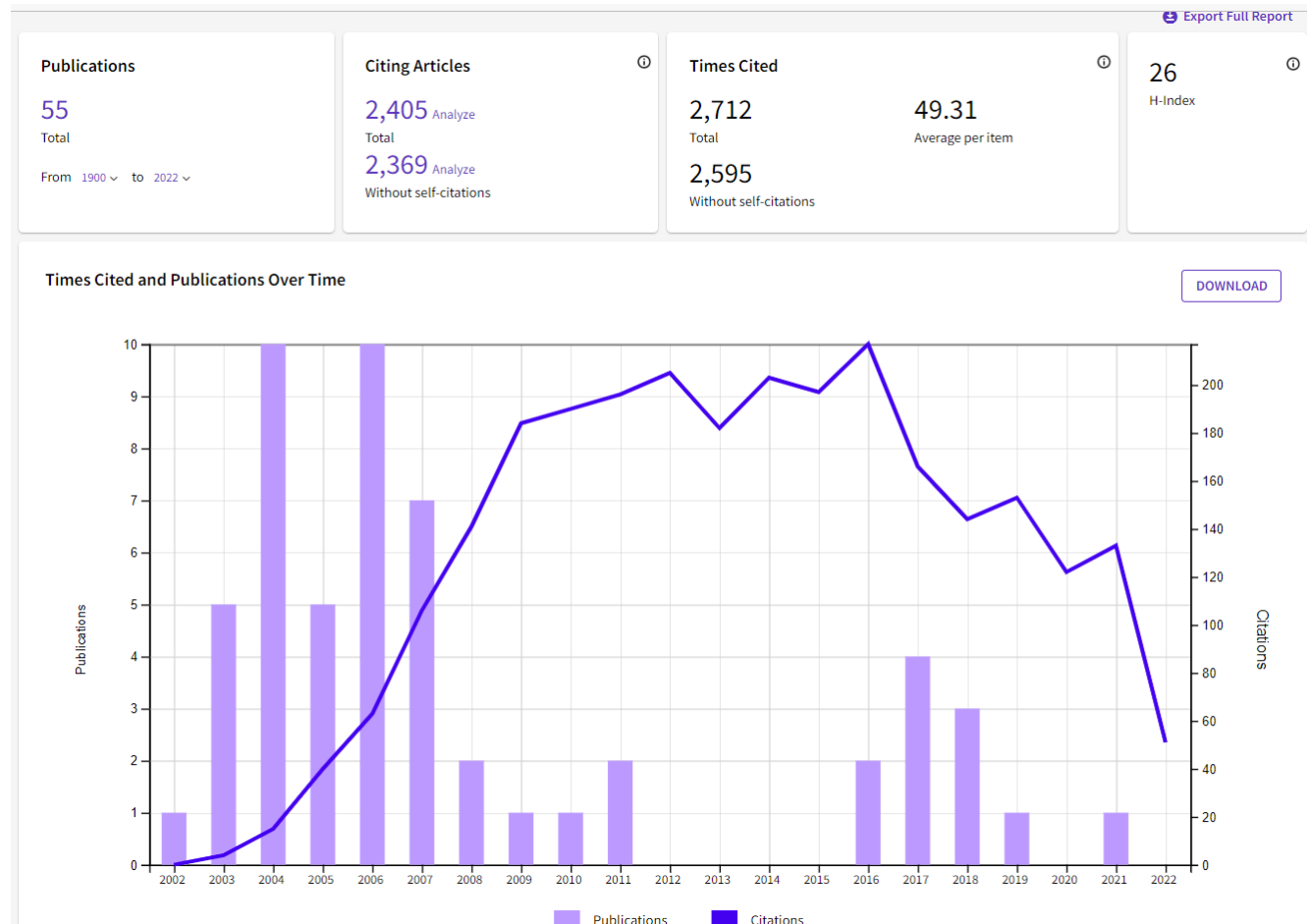
**URL: (i-LAB) [elimlaboratory.website2.me](http://elimlaboratory.website2.me), (Prof.): [HOME - profhendryielim.website2.me](http://HOME-profhendryielim.website2.me)**

~55 Publications in Web of Science (WoS)

Dated on 23<sup>rd</sup> September 2022

Sort by Citations:

**Total**



---

[1]

[New insights on the nanoparticle growth mechanism in the citrate reduction of Gold\(III\) salt: Formation of the au nanowire intermediate and its nonlinear optical properties](#)

Pong, BK; Elim, HI; (...); Lee, JY

May 3 2007 |

[JOURNAL OF PHYSICAL CHEMISTRY C](#) 111 (17) , pp.6281-6287

---

[2]

[Observation of saturable and reverse-saturable absorption at longitudinal surface plasmon resonance in gold nanorods](#)

Elim, HI; Yang, J; (...); Ji, W

Feb 20 2006 |

[APPLIED PHYSICS LETTERS](#) 88 (8)

---

[3]

[Rational synthesis, self-assembly, and optical properties of PbS-Au heterogeneous nanostructures via preferential deposition](#)

Yang, J; Elim, HI; (...); Ji, W

Sep 13 2006 |

[JOURNAL OF THE AMERICAN CHEMICAL SOCIETY](#) 128 (36) , pp.11921-11926

---

[4]

[Multiwalled carbon nanotubes beaded with ZnO nanoparticles for ultrafast nonlinear optical switching](#)

Zhu, YW; Elim, HI; (...); Sow, CH

Mar 3 2006 |

[ADVANCED MATERIALS](#) 18 (5) , pp.587-+

---

[5]

[Electronic and optical properties of nitrogen-doped multiwalled carbon nanotubes](#)

Lim, SH; Elim, HI; (...); Lin, J

Jan 2006 |

[PHYSICAL REVIEW B](#) 73 (4)

---

[6]

[Transparent nanohybrids of nanocrystalline TiO<sub>2</sub> in PMMA with unique nonlinear optical behavior](#)

Yuwono, AH; Xue, JM; (...); White, TJ

2003 |

[JOURNAL OF MATERIALS CHEMISTRY](#) 13 (6) , pp.1475-1479

---

[7]

[Controlling the crystallinity and nonlinear optical properties of transparent TiO<sub>2</sub>-PMMA nanohybrids](#)

Yuwono, AH; Liu, BH; (...); White, TJ

Oct 21 2004 |

[JOURNAL OF MATERIALS CHEMISTRY](#) 14 (20) , pp.2978-2987

---

[8]

[Gold and silver coated carbon nanotubes: An improved broad-band optical limiter](#)

Chin, KC; Gohel, A; (...); Wee, ATS

Jun 20 2005 |

[CHEMICAL PHYSICS LETTERS](#) 409 (1-3) , pp.85-88

[9]

[Ultrafast optical nonlinearity in poly\(methylmethacrylate\)-TiO<sub>2</sub> nanocomposites](#)

Elim, HI; Ji, W; (...); Wang, J

Apr 21 2003 |

[APPLIED PHYSICS LETTERS](#) 82 (16) , pp.2691-2693

[10]

[Effect of liquid crystal concentration on the lasing properties of dye-doped holographic polymer-dispersed liquid crystal transmission gratings](#)

Liu, YJ; Sun, XW; (...); Ji, W

Jan 1 2007 |

[APPLIED PHYSICS LETTERS](#) 90 (1)

[11]

[One-pot synthesis and third-order nonlinear optical properties of AgInS<sub>2</sub> nanocrystals](#)

Tian, L; Elim, HI; (...); Vittal, JJ

2006 |

[CHEMICAL COMMUNICATIONS](#) (41) , pp.4276-4278

[12]

[Preparation of carbon nanoparticles with strong optical limiting properties by laser ablation in water](#)

Chen, GX; Hong, MH; (...); Ji, W

Feb 1 2004 |

[JOURNAL OF APPLIED PHYSICS](#) 95 (3) , pp.1455-1459

[13]

[Excitonic nonlinear absorption in CdS nanocrystals studied using Z-scan technique](#)

He, J; Ji, W; (...); Chin, WS

Jun 1 2004 |

[JOURNAL OF APPLIED PHYSICS](#) 95 (11) , pp.6381-6386

[14]

[Refractive Index Control and Rayleigh Scattering Properties of Transparent TiO<sub>2</sub> Nanohybrid Polymer](#)

Elim, HI; Cai, B; (...); Kambe, N

Jul 30 2009 |

[JOURNAL OF PHYSICAL CHEMISTRY B](#) 113 (30) , pp.10143-10148

[15]

[Modified carbon nanotubes as broadband optical limiting nanomaterials](#)

Chin, KC; Gohel, A; (...); Wee, ATS

Nov 2006 |

[JOURNAL OF MATERIALS RESEARCH](#) 21 (11) , pp.2758-2766

[16]

[Ultrafast absorptive and refractive nonlinearities in multiwalled carbon nanotube films](#)

Elim, HI; Ji, W; (...); Huan, CHA

Sep 6 2004 |

[APPLIED PHYSICS LETTERS](#) 85 (10) , pp.1799-1801

[17]

[Gain narrowing and random lasing from dye-doped polymer-dispersed liquid crystals with nanoscale liquid crystal droplets](#)

Liu, YJ; Sun, XW; (...); Ji, W

Jul 3 2006 |

[APPLIED PHYSICS LETTERS](#) 89 (1)

[18]

[AgInSe<sub>2</sub> nanorods: A semiconducting material for saturable absorber](#)

Elim, HI; Ji, W; (...); Vittal, JJ

Jan 15 2007 |

[APPLIED PHYSICS LETTERS](#) 90 (3)

[19]

[Studies on spinel cobaltites, MCo<sub>2</sub>O<sub>4</sub> \(M = Mn, Zn, Fe, Ni and Co\) and their functional properties](#)

Darbar, D; Anilkumar, MR; (...); Reddy, MV

Apr 1 2018 |

[CERAMICS INTERNATIONAL](#) 44 (5) , pp.4630-4639

[20]

[Syntheses, crystal structures and optical limiting properties of three novel organometallic tungsten-copper-sulfur clusters: \[PPh<sub>4</sub>\]\[\(eta\(5\)-C<sub>5</sub>Me<sub>5</sub>\)WS<sub>3</sub>\(CuCN\)\(2\)\], \[\(eta\(5\)-C<sub>5</sub>Me<sub>5</sub>\)WS<sub>3</sub>Cu<sub>2</sub>\(PPh<sub>3</sub>\)\(mu-CN\)\)\(2\) and \[PPh<sub>4</sub>\]\[\(eta\(5\)-C<sub>5</sub>Me<sub>5</sub>\)WS<sub>3</sub>Cu<sub>2</sub>\(CN\)\(Py\)\)\(2\)\(mu-CN\)\]](#)

Lang, JP; Xu, QF; (...); Tatsumi, K

Jan 5 2004 |

[EUROPEAN JOURNAL OF INORGANIC CHEMISTRY](#) (1) , pp.86-92

[21]

[Large concentration-dependent nonlinear optical responses of starburst diphenylaminofluorenyl carbonyl methano\[60\]fullerene pentads](#)

Elim, HI; Anandakathir, R; (...); Tan, LS

May 14 2007 |

[JOURNAL OF MATERIALS CHEMISTRY](#) 17 (18) , pp.1826-1838

[22]  
[Optical-limiting-based materials of mono-functional, multi-functional and supramolecular C-60-containing polymers](#)

Elim, HI; Ouyang, JY; (...); Ji, W  
International Conference on Materials for Advanced Technologies  
Apr 22 2005 |  
[THIN SOLID FILMS](#) 477 (1-2) , pp.63-72

[23]  
[Optical limiting properties of amorphous SixNy and SiC coated carbon nanotubes](#)

Chin, KC; Gohel, A; (...); Wee, ATS  
Jan 1 2004 |  
[CHEMICAL PHYSICS LETTERS](#) 383 (1-2) , pp.72-75

[24]  
[Nonlinear optical transmission properties of C-60 dyads consisting of a light-harvesting diphenylaminofluorene antenna](#)

Elim, HI; Jeon, SH; (...); Chiang, LY  
Aug 14 2008 |  
[JOURNAL OF PHYSICAL CHEMISTRY B](#) 112 (32) , pp.9561-9564

[25]  
[A Novel Preparation of High-Refractive-Index and Highly Transparent Polymer Nanohybrid Composites](#)

Cai, B; Sugihara, O; (...); Kaino, T  
Sep 2011 |  
[APPLIED PHYSICS EXPRESS](#) 4 (9)

[26]  
[Carbon nanoparticles based nonlinear optical liquid](#)

Chen, GX; Hong, MH; (...); Chong, TC  
2004 |  
[CARBON](#) 42 (12-13) , pp.2735-2737

[27]  
[Photophysical and nonlinear-optical properties of a new polymer: Hydroxylated pyridyl para-phenylene](#)

Ji, W; Elim, HI; (...); Knoll, W  
Oct 9 2003 |  
[JOURNAL OF PHYSICAL CHEMISTRY B](#) 107 (40) , pp.11043-11047

[28]  
[Titania-PMMA nanohybrids of enhanced nanocrystallinity](#)

Yuwono, AH; Xue, JM; (...); Ji, W  
3rd International Conference on Materials for Advanced Technologies (ICMAT-2005)/9th International Conference on Advanced Materials (ICAM 2005)  
Jul 2006 |  
[JOURNAL OF ELECTRO CERAMICS](#) 16 (4) , pp.431-439

[29]  
[Nonlinear optical properties of mono-functional 1,2-dihydro-1,2-methanofullerene\[60\]-61-carboxylic acid/polymer composites](#)

Elim, HI; Ouyang, JY; (...); Ji, W  
Feb 17 2003 |  
[CHEMICAL PHYSICS LETTERS](#) 369 (3-4) , pp.281-286

[30]  
[Carrier concentration dependence of optical Kerr nonlinearity in indium tin oxide films](#)

Elim, HI; Ji, W and Zhu, F  
Mar 2006 |  
[APPLIED PHYSICS B-LASERS AND OPTICS](#) 82 (3) , pp.439-442

[31]  
[Intensity-dependent enhancement of saturable absorption in PbS-Au-4 nanohybrid composites: Evidence for resonant energy transfer by Auger recombination](#)

Elim, HI; Ji, W; (...); Lee, JY  
Jun 23 2008 |  
[APPLIED PHYSICS LETTERS](#) 92 (25)

[32]  
[Study of the optical limiting properties of carbon-encapsulated magnetic nanoparticles](#)

Bystrzejewski, M; Lange, H; (...); Ji, W  
Aug 17 2007 |  
[CHEMICAL PHYSICS LETTERS](#) 444 (1-3) , pp.113-117

[33]  
[Nonlinear optics and optical limiting properties of multifunctional fullerene/polymer composite](#)

Elim, HI; Ji, W and Meng, GC  
2nd International Symposium on Modern Optics and Its Applications (IS-MOA)  
Jun 2003 |  
[JOURNAL OF NONLINEAR OPTICAL PHYSICS & MATERIALS](#) 12 (2) , pp.175-186

[34]  
[Formation of new organometallic W/Cu/S clusters from reactions of \[\(eta\(5\)-C5Me5\)WS3\]\(3\)CU7\(MeCN\)\(9\)\]\(PF6\)\(4\)with donor ligands. Crystal structures and optical limiting properties of \[\(eta\(5\)-C5Me5\)WS3CU3\(F C5Me5\)WS3CU3Br-\(PPh3\)\(3\)\]\(PF6\), and \[\(eta\(5\)-C5Me5\)WS3CU4\(PY\)Cl\(dppm\)\(2\)\]\(PF6\)\(2\)](#)

Yu, H; Zhang, WH; (...); Ji, W  
Sep 1 2005 |  
[JOURNAL OF ORGANOMETALLIC CHEMISTRY](#) 690 (17) , pp.4027-4035

[35]  
[Optical limiting phenomena of carbon nanoparticles prepared by laser ablation in liquids](#)

Chen, GX; Hong, MR; (...); Ji, W  
8th International Conference on Laser Ablation  
2007 |  
COLA'05: 8TH INTERNATIONAL CONFERENCE ON LASER ABLATION 59 , pp.289-+

[36]  
[Dynamic mechanical behavior and optical limiting property of multifunctional fullerene/polymer composite](#)

Ouyang, JY; Goh, SH; (...); Ji, W  
Dec 10 2002 |  
[CHEMICAL PHYSICS LETTERS](#) 366 (3-4) , pp.224-230

[37]  
[Length Dependence of Ultrafast Optical Nonlinearities in Vertically Aligned Multiwalled Carbon Nanotube Films](#)

Elim, HI; Zhu, YW and Sow, CH  
Aug 11 2016 |  
[JOURNAL OF PHYSICAL CHEMISTRY C](#) 120 (31) , pp.17733-17738

[38]  
[Transparent TiO<sub>2</sub>-PMMA nanohybrids of high nanocrystallinity and enhanced nonlinear optical properties](#)

Yuwono, AH; Xue, JM; (...); Ji, W  
Jun 2005 |  
[JOURNAL OF NONLINEAR OPTICAL PHYSICS & MATERIALS](#) 14 (2) , pp.281-297

[39]  
[Formation, structure and nonlinear optical properties of carbon nanoparticles synthesized by pulsed laser ablation](#)

Chen, GX; Hong, MH; (...); Chong, TC  
Sep 2004 |  
[APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING](#) 79 (4-6) , pp.1079-1082

[40]  
[Rayleigh scattering study and particle density determination of a high refractive index TiO<sub>2</sub> nanohybrid polymer](#)

Elim, HI; Cai, B; (...); Adschiri, T  
2011 |  
[PHYSICAL CHEMISTRY CHEMICAL PHYSICS](#) 13 (10) , pp.4470-4475

[41]  
[Correlation study on temperature dependent conductivity and line profile along the LLTO/LFP-C cross section for all solid-state Lithium-ion batteries](#)

Abhilash, KP; Selvin, PC; (...); Reddy, MV  
Nov 5 2019 |  
[SOLID STATE IONICS](#) 341

[42]  
[WATER CONTAMINATED CaCO<sub>3</sub> AND ITS OPTICAL PROCESS OF AGGREGATION](#)

Elim, HI; Talapessy, R and Sari, NABR  
Sep 2016 |  
[INTERNATIONAL JOURNAL OF HEALTH MEDICINE AND CURRENT RESEARCH-IJHMCR](#) 1 (1) , pp.101-107

[43]  
[Optical limiting studies of new carbon nanocomposites and amorphous SixNy or amorphous SiC coated multi-walled carbon nanotubes](#)

Elim, HI; Chen, WZ; (...); Hong, MH  
3rd International Symposium on Modern Optics and its Applications  
Jun 2004 |  
[JOURNAL OF NONLINEAR OPTICAL PHYSICS & MATERIALS](#) 13 (2) , pp.275-289

[44]  
[PHYSICS OF MULTITASKING NANOMEDICINE](#)

Elim, HI  
Sep 2017 |  
[INTERNATIONAL JOURNAL OF HEALTH MEDICINE AND CURRENT RESEARCH-IJHMCR](#) 2 (3) , pp.509-519

[45]  
[NANOMEDICINE WITH ITS MULTITASKING APPLICATIONS: A VIEW FOR BETTER HEALTH](#)

Elim, HI  
Jun 2017 |  
[INTERNATIONAL JOURNAL OF HEALTH MEDICINE AND CURRENT RESEARCH-IJHMCR](#) 2 (2) , pp.353-357

[46]  
[THE ATTRACTIVE DIFFERENCES OF TWO TYPES OF HERBAL MEDICINE FROM ZINGIBERACEAE FRUIT \(GOLOBE HALMAHERA\)](#)

Elim, HI and Mapanawang, AL  
Mar 2018 |  
[INTERNATIONAL JOURNAL OF HEALTH MEDICINE AND CURRENT RESEARCH-IJHMCR](#) 3 (1) , pp.826-834

[47]  
[Large nonlinear optical properties of ternary quantum dots and nanorods](#)

Elim, HI; Ji, W; (...); Vittal, JJ  
Conference on Nanophotonic Materials IV  
2007 |  
NANOPHOTONIC MATERIALS IV 6639

[48]  
[Solvent effect and wavelength effect of laser-synthesized carbon nanoparticle colloids on optical limiting](#)

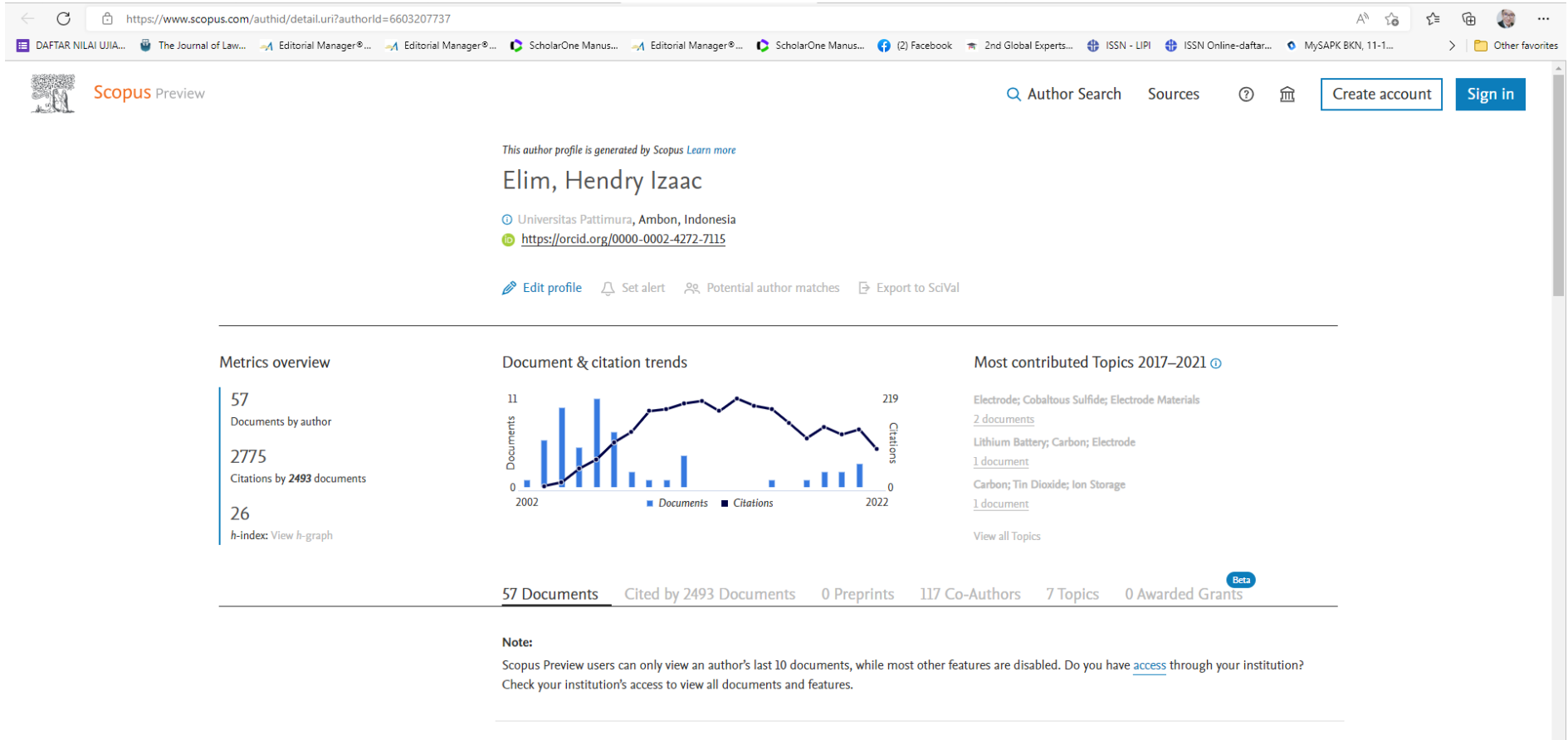
Chen, GX; Hong, MH; (...); Chong, TC  
5th International Symposium on Laser Precision Microfabrication  
2004 |  
FIFTH INTERNATIONAL SYMPOSIUM ON LASER PRECISION MICROFABRICATION 5662 , pp.71-76

[49]  
[Large nonlinear absorption in single aggregate of silver nanoparticles observed with z-scan imaging technique](#)

Elim, HI  
Nov 1 2021 |  
[AIP ADVANCES](#) 11 (11)



## Indexed by SCOPUS:




# Indexed by Google Scholar:

~h index of 30 & citation ~ 4068

DAFTAR NILAI UJIA... The Journal of Law... Editorial Manager®... Editorial Manager®... ScholarOne Manus... Editorial Manager®... ScholarOne Manus... (2) Facebook 2nd Global Experts... ISSN - LIPI ISSN Online-daftar...

Google Scholar

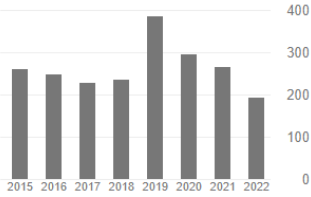
 **Hendry Izaac Elim, Ph. D** [FOLLOW](#) [GET MY OWN PROFILE](#)

Prof. (Associate) of Physics at [Pattimura University](#), Indonesia  
Verified email at [staff.unpatti.ac.id](mailto:staff.unpatti.ac.id) - [Homepage](#)  
[Stamec-Gravitism](#) [Multitasking Physics](#) [Physics of Nanoscience](#)  
[Nanotechnology and Nano...](#) [Social and Humanity Physics](#)

TITLE	CITED BY	YEAR
<a href="#">New insights on the nanoparticle growth mechanism in the citrate reduction of gold (III) salt: formation of the Au nanowire intermediate and its nonlinear optical properties</a> BK Pong, HI Elim, JX Chong, W Ji, BL Trout, JY Lee The Journal of Physical Chemistry C 111 (17), 6281-6287	365	2007
<a href="#">Observation of saturable and reverse-saturable absorption at longitudinal surface plasmon resonance in gold nanorods</a> HI Elim, J Yang, JY Lee, J Mi, W Ji Applied physics letters 88 (8), 083107	282	2006
<a href="#">Multiwalled carbon nanotubes beaded with ZnO nanoparticles for ultrafast nonlinear optical switching</a> Y Zhu, HI Elim, YL Foo, T Yu, Y Liu, W Ji, JY Lee, Z Shen, ATS Wee, ... Advanced Materials 18 (5), 587-592	268	2006
<a href="#">Rational synthesis, self-assembly, and optical properties of PbS– Au heterogeneous nanostructures via preferential deposition</a> J Yang, HI Elim, QB Zhang, JY Lee, W Ji Journal of the American Chemical Society 128 (36), 11921-11926	261	2006
<a href="#">Electronic and optical properties of nitrogen-doped multiwalled carbon nanotubes</a> SH Lim, HI Elim, XY Gao, ATS Wee, W Ji, JY Lee, J Lin Physical Review B 73 (4), 045402	218	2006
<a href="#">Controlling the crystallinity and nonlinear optical properties of transparent TiO<sub>2</sub>-PMMA nanohybrids</a> AH Yuwono, B Liu, J Xue, J Wang, HI Elim, W Ji, Y Li, TJ White Journal of Materials Chemistry 14 (20), 2978-2987	194	2004
<a href="#">Transparent nanohybrids of nanocrystalline TiO<sub>2</sub> in PMMA with unique nonlinear optical behavior</a> AH Yuwono, J Xue, J Wang, HI Elim, W Ji, Y Li, TJ White Journal of Materials Chemistry 13 (6), 1475-1479	162	2003
<a href="#">Ultrafast optical nonlinearity in poly(methylmethacrylate)-TiO<sub>2</sub> nanocomposites</a> HI Elim, W Ji, AH Yuwono, J Xue, J Wang, ...	157	2003

**Cited by** [VIEW ALL](#)

	All	Since 2017
Citations	4068	1608
h-index	30	22
i10-index	61	52






**Public access** [VIEW ALL](#)

Public access	Count
2 articles	0 articles
not available	available

Based on funding mandates

**Co-authors** [VIEW ALL](#)

-  **Wei Ji**  
National University of Singapore >
-  **Jim Yang Lee**  
Department of Chemical and Bio... >
-  **Chong Haur Sow** >

# Recorded of the whole process in ResearchGate:

ResearchGate

Search for publications, researchers, or questions or Discover by subject area

Advertisement

Register Free Now

Reimagining leadership, productivity and the workplace, October 12th-14th 2022 Economist Impact

Home > Pattimura University > Department of Physics > Hendry Izaac Elim

**Hendry Izaac Elim** Contact

Pattimura University - Department of Physics  
PhD, Professor (in progress) in PHYSICS Head of Nanotechnology Research Center and Innovative Creation (PPNRI-UNPATTI) & Chairman of Ambon Academy of Science & Arts (A-ASA)  
*My current research activities involve multitasking advanced physics developments in interdisciplinary fields*

About Publications (160) Network Projects (2)

**About**

160 Publications	22,342 Reads	3,472 Citations
---------------------	-----------------	--------------------

Introduction

H.I. Elim, Ph.D is Prof. in Physics at Pattimura university, & Ambon Academy of Science & Arts (A-ASA), a NON-profit org. All of his education were from physics department at Gadjah Mada university (UGM), Bandung Institute of Technology (ITB) and National University of Singapore, respectively. Dr. Elim is now a senior scientist with the background postdoctoral experiences at NUS (both Physics & Chemical and Biomolecular Engineering from Oct. 2004 to March 2012) as well as at Tohoku univ.

**Skills and Expertise**

Optics Nonlinear Optics Laser Optics and Photonics Optical Physics Nanoparticles  
Renewable Energy Photonics

**Current institution**

**Pattimura University**  
Department of Physics - Ambon...  
Current position  
Professor (Associate)

**Hendry Izaac Elim's Lab, URL:**  
<http://elimlaboratory.website2.me>

**Current journal roles**

**Peer Reviewer**  
and Materials Research Bulletin  
Journal of Applied Chystallography