

อัฐิประวัติ



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ตำแหน่งทางวิชาการ: รองศาสตราจารย์ ระดับ 9

สถานที่ทำงาน: วิทยาลัยนาโนเทคโนโลยีพระจอมเกล้าลาดกระบัง
สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพฯ 10520
โทรศัพท์ 023298000 ต่อ 3117

การศึกษา:

คุณวุฒิ	ปี พ.ศ. ที่จบ	ชื่อสถานศึกษาและประเทศ
วท. บ. (ฟิสิกส์ เกียรตินิยม)	2535	มหาวิทยาลัยเชียงใหม่ ประเทศไทย
M.Sc. (Physics)	2540	University of Central Florida, USA
ปร.ด. (ฟิสิกส์ประยุกต์)	2550	สถาบันเทคโนโลยีพระจอมเกล้า เจ้าคุณทหารลาดกระบัง

ประวัติการรับราชการ

ได้รับแต่งตั้งให้ดำรงตำแหน่งอาจารย์

เมื่อวันที่ 19 พฤษภาคม พ.ศ. 2536

ได้รับแต่งตั้งให้ดำรงตำแหน่งผู้ช่วยศาสตราจารย์ เมื่อวันที่ 24 เมษายน พ.ศ. 2545

ได้รับแต่งตั้งให้ดำรงตำแหน่งรองศาสตราจารย์ เมื่อวันที่ 31 สิงหาคม พ.ศ. 2548

ประสบการณ์การทำงาน

- พ.ศ. 2536-52 อาจารย์ประจำ ภาควิชาฟิสิกส์ประยุกต์ คณะวิทยาศาสตร์ สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
- พ.ศ. 2542-44 อาจารย์พิเศษ ภาควิชาฟิสิกส์ คณะวิทยาศาสตร์ มหาวิทยาลัยอุบลราชธานี
- พ.ศ. 2544-48 กรรมการคณะวิทยาศาสตร์ สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง

- พ.ศ. 2546 อาจารย์พิเศษ หลักสูตรปริญญาโท-เอก สาขาวิชาฟิสิกส์ คณะวิทยาศาสตร์ มหาวิทยาลัยมหิดล
- พ.ศ. 2546 อาจารย์พิเศษ หลักสูตรปริญญาโท-เอก สาขาวิชาฟิสิกส์ คณะวิทยาศาสตร์ มหาวิทยาลัยศิลปากร
- พ.ศ. 2548-50 กรรมการสภาคณาจารย์ สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
- พ.ศ. 2552 รักษาการ รองคณบดีฝ่ายวิชาการ คณะวิทยาศาสตร์ สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
- พ.ศ. 2552 รักษาการผู้อำนวยการสำนักบริหารงานทั่วไป คณะวิทยาศาสตร์ สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
- พ.ศ. 2552 รักษาการผู้อำนวยการศูนย์เครื่องมือวิทยาศาสตร์ คณะวิทยาศาสตร์ สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
- พ.ศ. 2552-ปัจจุบัน อาจารย์ประจำวิทยาลัยนาโนเทคโนโลยีพระจอมเกล้าลาดกระบัง สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
- พ.ศ. 2552-ปัจจุบัน หัวหน้าห้องปฏิบัติการวัสดุนาโนคอมโพสิต วิทยาลัยนาโนเทคโนโลยีพระจอมเกล้าลาดกระบังสถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
- พ.ศ. 2555-ปัจจุบัน ผู้ทรงคุณวุฒิประจำกรรมการสภาวิชาการ สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
- พ.ศ. 2556-ปัจจุบัน ผู้ทรงคุณวุฒิประจำกรรมการคณะวิทยาศาสตร์ มหาวิทยาลัยราชภัฏราชชนครินทร์
- พ.ศ. 2557-ปัจจุบัน ผู้ทรงคุณวุฒิประจำกรรมการคณะบริหารธุรกิจ มหาวิทยาลัยราชภัฏวชิรเวศน์บุรีรัมย์
- 24 ก.พ. 2558-ปัจจุบัน รองคณบดี วิทยาลัยนาโนเทคโนโลยีพระจอมเกล้าลาดกระบัง สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง

ทุนและรางวัล

- พ.ศ. 2531-35 ทุนโครงการพัฒนาและส่งเสริมผู้มีความสามารถพิเศษทางวิทยาศาสตร์และเทคโนโลยี (พสวท) ของ สสวท ในระดับปริญญาตรี สาขาฟิสิกส์ คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่
- พ.ศ. 2532 เหรียญผลการเรียนดีเด่น คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่
- พ.ศ. 2536-40 ทุนกระทรวงวิทยาศาสตร์และเทคโนโลยี ในระดับปริญญาโท เพื่อศึกษาต่อใน

ต่างประเทศ สาขาฟิสิกส์ Faculty of Art and Science, University of Central
Florida, United State of America

- พ.ศ. 2557 รางวัล “ครูผู้สอนดีเด่น” ของสถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง

ประสบการณ์การทำงานด้านอื่นๆ

- กรรมการโครงการความร่วมมือเพื่อพัฒนาการเรียนการสอนและการจัดการศึกษาวิชา คณิตศาสตร์ วิทยาศาสตร์ และเทคโนโลยีระดับโรงเรียน ระหว่างสถาบันส่งเสริมการสอนวิทยาศาสตร์และเทคโนโลยี (สสวท.) กับคณะวิทยาศาสตร์ สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
- กรรมการค่ายวิทยาศาสตร์ภาคฤดูร้อนสำหรับนักเรียนในโครงการ พสวท.
- หัวหน้าห้องปฏิบัติการ Scanning Electron Microscope
- คณะอนุกรรมการประกันคุณภาพการศึกษาของคณะวิทยาศาสตร์ สจล.
- คณะกรรมการกลางโอลิมปิกวิชาการ ในการแข่งขันฟิสิกส์โอลิมปิก และดาราศาสตร์โอลิมปิก มูลนิธิส่งเสริมโอลิมปิกวิชาการและพัฒนามาตรฐานวิทยาศาสตร์ศึกษา ในพระอุปถัมภ์สมเด็จพระเจ้าพี่นางเธอ เจ้าฟ้ากัลยาณิวัฒนา กรมหลวงนราธิวาสราชนครินทร์ (สอวน.)
- ผู้ทรงคุณวุฒิประเมินโครงการวิจัยของสำนักงานกองทุนสนับสนุนการวิจัย
- ผู้ทรงคุณวุฒิประเมินโครงการวิจัยของสถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน)
- ผู้ทรงคุณวุฒิที่ปรึกษางานวิจัย กรมวิทยาศาสตร์และเทคโนโลยีกลาโหม
- ผู้ทรงคุณวุฒิการปรับปรุงหลักสูตร ของมหาวิทยาลัยแม่ฟ้าหลวง มหาวิทยาลัยราชภัฏนครราชสีมา
- กองบรรณาธิการวารสารวิทยาศาสตร์ มหาวิทยาลัยราชภัฏพิบูลสงคราม
- ผู้ประเมินบทความวิชาการ วารสารระดับชาติและระดับนานาชาติกว่า 20 วารสาร
- หัวหน้าบรรณาธิการรับเชิญ (Guest Editor) วารสาร Advanced Materials Research, Switzerland
- คณะกรรมการการจัดประชุมวิชาการระดับชาติและระดับนานาชาติ อาทิ Siam Physics Congress 2012, International Conference on Engineering, Applied Science and Technology 2013 เป็นต้น
- วิทยากรรับเชิญ (Invited Speaker) ในงานประชุมทางวิชาการระดับชาติและระดับนานาชาติ อาทิ Siam Physics Congress 2013, International Workshop on Field Emitter and Semiconductor Materials and Devices เป็นต้น

หัวข้อวิจัยและพัฒนา

ปี	ชื่องานวิจัย	รายละเอียด	ผู้ให้ทุน
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2557-2558	การสังเคราะห์และการศึกษาโครงสร้างอย่างละเอียดของวัสดุประกอบออกไซด์เชิงซ้อน M-Zn-O โครงสร้างสปีเนล (M=Sn, Al)	หัวหน้าโครงการ	สำนักงานคณะกรรมการวิจัยแห่งชาติ
2556-2557	การสังเคราะห์ผงนาโนนำไฟฟ้า M-doped SnO ₂ (M=In, Sb, F) ด้วยวิธีพื้นฐานทางโซล-เจล เพื่อประยุกต์ใช้ในงานด้านออปโตอิเล็กทรอนิกส์	หัวหน้าโครงการ	สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง
2555-2556	การสังเคราะห์สารประกอบหลายหน้าที่ของ ZnO-CuO ระดับนาโนด้วยวิธีตกตะกอนร่วม	หัวหน้าโครงการ	สำนักงานคณะกรรมการวิจัยแห่งชาติ
2554-2555	การสังเคราะห์เส้นใยนาโนคอมโพสิต N-doped TiO ₂ /CuO ที่มีประสิทธิภาพการเร่งปฏิกิริยาด้วยแสงที่เพิ่มขึ้นภายใต้แสงที่มองเห็นเพื่อประยุกต์ใช้งานด้านสิ่งแวดล้อม	หัวหน้าโครงการ	สำนักงานคณะกรรมการวิจัยแห่งชาติ
2554-2556	การสังเคราะห์สารประกอบออกไซด์เชิงซ้อนที่มีอนุภาคระดับนาโนเมตรด้วยกระบวนการใช้คลื่นเสียง	ผู้ร่วมวิจัยในโครงการ	สถาบันเทคโนโลยีพระจอมเกล้าเจ้าคุณทหารลาดกระบัง (สจล.)
2553	เซ็นเซอร์จากวัสดุผสมไฮบริดนาโนสำหรับตรวจสอบสารพิษโลหะหนักในสิ่งแวดล้อม	ผู้ร่วมวิจัยในโครงการ	ศูนย์ความเป็นเลิศทางฟิสิกส์
2552	การพัฒนาวัสดุคอมโพสิตของโลหะออกไซด์กับวัสดุโครงสร้างนาโนเพื่อใช้ในงานด้านอิเล็กทรอนิกส์	หัวหน้าโครงการ	ศูนย์ความเป็นเลิศทางฟิสิกส์
2549-2551	การพัฒนาระบบการปลูกฟิล์มบางนำไฟฟ้าโปร่งใสและระบบวัดทางแสงเพื่อพิสูจน์เอกลักษณ์สมบัติฟิล์มบาง	หัวหน้าโครงการ	สำนักวิจัยนาโนเทคโนโลยีลาดกระบัง
2548-2549	การพัฒนาระบบต้นแบบลอจิกเกตทางแสงโดยใช้ฟิล์มบางสารอินทรีย์	หัวหน้าโครงการ	สจล.

สาขาวิชาการที่มีความชำนาญพิเศษ

Optics, Laser, Quantum Device, Nanotechnology, Nanocomposite, Optical Thin Films and Materials, Optical Characterization, Metal Oxides, Nanomaterial, Nanocomposite and Synthesis

งานแต่ง เรียบเรียง แปลหนังสือ หรือเขียนบทความทางวิชาการ

1. วิษณุ เพชรภา, กลศาสตร์, 2544
2. วิษณุ เพชรภา, เลเซอร์และการประยุกต์, 2547

ผลงานวิจัย

ผลงานวิจัยที่ตีพิมพ์ในวารสารระดับนานาชาติ (2010-2019)

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1. C. Saributr, W. Mekprasart, P. Thanomngam, and **W. Pecharapa**, “Investigation of Structural properties of CuPc/TiO₂ Nanocomposites”, *Advanced Materials Research*, 93-94 (2010), pp. 687-690.
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3. K. Chongsri, S. Boonruang and **W. Pecharapa**, “N-doped MgZnO alloy thin film prepared by sol-gel method ” *Material Letters*, 65 (2011), pp.1842-1845. (IF: 1.94)
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7. R. Noonuruk, N. Wongpisutpaisan, P. Mukdacharoenchai, W. Techitdheera and **W. Pecharapa**, “Ozone-induced Optical Density Change of NiO Thin Films and Their Applicability as Neutral Optical Density Filter”, *Procedia Engineering*, 8 (2011), pp. 212-216.

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16. K. Paipitak, J. Rattanarak, D. Pakdeeyingyong, W. Techitdheera, S. Porntheeraphat and **W. Pecharapa**, "Enhanced electrochromic performance of sol-gel derived WO_3 thin films assisted by electrospun PVA nanofibers", *Advanced Materials Research*, 528 (2012) pp. 249-253.

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121. P. Potirak, W. Pecharapa and W. Techitdheera, “Microwave-assisted synthesis of ZnO/MWCNT hybrid nanocomposites and their alcohol-sensing properties”, <i>Journal of Experimental Nanoscience</i> , Vol.9 Issue 1, (2014) pp. 97-106, (IF: 0.875; 2012)

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