



# جامعة الكفيل

## University of Alkafeel

### السيرة الذاتية

الإسم الثلاثي : فراس كامل محمد عبد الرزاق العصفور

محل وتاريخ الولادة : العراق-كربلاء 1974/10/17

القومية : عربية

الحالة الزوجية : متزوج

اللغات : العربية والإنكليزية

مكان العمل : جامعه الكفيل

اللقب العلمي أستاذ مساعد

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### اللقب العلمي الذي حصل عليه

- استاذ بتاريخ 2014/4/16(فيزياء ليزر)
- استاذ مساعد بتاريخ 2009/4/15 (فيزياء ليزر)
- مدرس بتاريخ 25/4/13
- مدرس مساعد بتاريخ 2002.2002/7/8 .

### الشهادات التي حصلت عليها

- دكتوراه (النانوتكنولوجي) / الجامعة الوطنية الماليزية (UKM)- ماليزيا 2014
- ماجستير (البصريات) / جامعة بوترا الماليزية (UPM) – ماليزيا 2009
- بكالوريوس في الفيزياء / جامعة بغداد – العراق 1993

## المناصب التي شغلها

- معاون عميد في كلية العلوم للشؤون الإدارية للفترة 2016/9 الى 2018/9
- مدير قسم ضمان الجودة والأداء الجامعي 2018/9 - لغاية الان

## المواد التي قام بتدريسها

- مختبر الفيزياء الذرية
- مختبر الميكانيك
- مختبر العلوم النووية
- مختبر المواد
- علم المواد – المرحلة الثانية
- الفيزياء الطبية – المرحلة الرابعة

## طلاب الدراسات التي أشرف عليها

- **MSc thesis**, Effect of Solar Cell by Polymer Blend With Nanoparticles, College of Education for Pure Sciences, University of Babylon, 2020
- **MSc thesis**, Synthesis and Characterization of TiO<sub>2</sub> Nanoparticles by Microwave and its Application Toward Water Treatments, Higher Education Department, College of Sciences, University of Karbala, 2020

## براءة الاختراع

A new design of the Kalyx Derivatives (4) Aren straw to purify water from heavy metals. C02F1/62, 4984

- The 7th International Conference on Sensing Technology, 2013, Massey University, **New Zealand**.
- International MERGE Technologies Conference, 2013, Chemnitz University, **Germany**.
- Advanced Materials Characterization by Multi-technique XPS, 2013, UKM, **Malaysia**.
- The 3rd ISESCO International Workshop and Conference on Nanotechnology, 2012, UKM & ISESCO, **Malaysia**.

### البحوث التي تم تقييمها في المجلات العالمية

تقييم أكثر من 50 بحث عالمي وبمختلف المجلات العالمية الرصينه مثل:

- **Nanoscale Research Letters**. Springer Editorial
- **Industrial & Engineering Chemistry Research**. American Chemical Society Publications.
- **Materials Science in Semiconductor Processing**. Elsevire Editorial.
- **Journal of Materials Science and Nanotechnology**. Annex Publishers
- **Materials Letters**. Elsevire Editorial.
- **Materials Science and Nanotechnology**.
- **Nanotechnology**. IOP Publishing LTD
- **Portugaliae Electrochimica Acta**.
- **Materials Research Express**. IOP Publishing
- **Journal of Physics and Chemistry of Solids**. Elsevier Editorial.
- **New Journal of Chemistry**. Royal Society of Chemistry
- **Journal of Nanoparticle Research**. Springer Editorial
- **Journal of Physics D: Applied Physics**. IOP Publishing
- **Journal of Advanced Research in Applied Sciences and Engineering Technology**.
- **Russian Journal of Electrochemistry**. Springer Editorial
- **Oriental Journal of Chemistry**. Oriental Scientific Publ Co.
- **Journal of Polymer Research**. Springer Editorial

2019

- Synthesis ZnO nanoparticles by LAL method using different energies of Nd- YAG laser. 2019, .AIP Conference Proceedings
- Structure and optical properties of TiO<sub>2</sub> nanorods prepared using polyol solvothermal .method, 2019, AIP Conference Proceedings
- High photocatalytic activity of TiO<sub>2</sub> nanorods prepared by simple method, Materials Research Express, 2019, IOP publisher.

2018

- ZnO nanofluids prepared by laser ablation in various solvents, Materials Research Express, 2018, IOP publisher.
- Dimensional effect of ZnO nanorods on gas-sensing performance, Journal of Physics D: Applied Physics, 2018, IOP publisher.
- One-step formation of TiO<sub>2</sub> hollow spheres via a facile microwave-assisted process for photocatalytic activity, Nanotechnology, 2018, IOP publisher.
- Effect of Crushing Speed Rate on Crashworthiness Parameters and Energy Absorption Capability of Composite Materials, Journal of Physics: Conference Series, 2018.
- Effect of substitution (Al and P) atoms in ZnO nanosheet on structural and electronic properties, Journal of Physics: Conference Series, 2018.
- Ablation of ZnO in liquid by Nanosecond Laser, Journal of Physics: Conference Series, 2018.
- Facile method to synthesis of anatase TiO<sub>2</sub> nanorods, Journal of Physics: Conference Series, 2018.
- Voltammetric Characterization of Grafted Polymer Modified With ZnO Nanoparticles on Glassy Carbon Electrode, Russian Journal of Electrochemistry, 2018.

Simple One Step Synthesis of SnO<sub>2</sub> Nanoparticles Thin Film by Microwave Oven and its Application as Ammonia Gas Sensor, Al-bahir Journal, 2018. •

**2016**

A study on thermal diffusivity and dielectric properties of epoxy matrix reinforced by fibers material. Journal of Kerbala University, 2016. •

**2014**

Rapid synthesis of TiO<sub>2</sub>/MWCNTs nanocatalyst with enhanced photocatalytic activity using modified microwave technique. Materials Science in Semiconductor Processing, 2014. •

**2013**

Visible light photocatalytic activity of TiO<sub>2</sub>/MWCNTs nanocomposite prepared using modified microwave technique. IEEE *Xplore*. Proceedings of the International Conference on Sensing Technology, ICST. 2013:777-781. •

Ethanol sensor based on ZnO nanostructures prepared via microwave oven. IEEE *Xplore*. Proceedings of the International Conference on Sensing Technology, ICST. 2013:121-126. •

Visible Light-Responsive TiO<sub>2</sub> Coated MWCNTs as a Hybrid Nanocatalysts. International Journal of Electrochemical Science, 2013. •

Microwave assisted hydrothermal method for porous zinc oxide nanostructured-films. Journal of Nanoscience and Nanotechnology, 2013. •

Defects-controlled ZnO nanorods with high aspect ratio for ethanol detection. International Journal of Electrochemical Science, 2013. •

Modified microwave method for the synthesis of visible light-responsive TiO<sub>2</sub>/MWCNTs nanocatalysts. Nanoscale Research Letters, 2013. •

**2012**

Dressing of MWCNTs with TiO<sub>2</sub> nanoparticles using modified microwave method. Advanced Materials Research, 2012. •

Synthesis TiO<sub>2</sub>/MWCNTs nanocomposite with high specific surface area using modified microwave method. 12<sup>th</sup> Postgraduate Colloquium at the Faculty of Science and Technology, UKM. 2012. •

**2009**

Effect of Sr substitution on structure and thermal diffusivity of Ba<sub>1-x</sub>Sr<sub>x</sub>TiO<sub>3</sub> ceramic. American J. of Engineering and Applied Sciences 2 (4): 661-664, 2009

**2008**

Thermal effusivity measurement of virgin coconut oil-methanol mixtures using photoacoustic technique. American J. of Engineering and Applied Sciences 1 (3): 200-203, 2008. •

**2007**

Measurement and calculation of the angular and energy distribution for scattered photons from surrounding materials. J. of Kerbala University, Vol.5, No.1 Scientific (2007) 106-117. •

Measurement of gamma ray buildup factor in single layer shields. J. of Kerbala University, Vol.5, No.3 Scientific (2007) 40-58. •

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