

## Documents

Razik, A.H.A.<sup>a b</sup>, Yusof, F.<sup>c</sup>, Buari, N.H.<sup>d</sup>

**Process systems engineering for sustainable photographic lens production: A review**

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<sup>a</sup> Faculty of Chemical & Process Engineering Technology, Universiti Malaysia Pahang, Gambang, Pahang, 26300, Malaysia

<sup>b</sup> Centre for Sustainability of Ecosystem and Earth Resources, Universiti Malaysia Pahang, Gambang, Kuantan, Pahang, 26300, Malaysia

<sup>c</sup> Department of Optometry and Visual Science, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan, Pahang, 25200, Malaysia

<sup>d</sup> Centre of Optometry, Faculty of Health Sciences, Universiti Teknologi MARA, Bandar Puncak Alam, Selangor 42300, Malaysia

**Abstract**

Photographic lens is an invention to duplicate human eye functions and operations. Starting with seeing and focusing the object, the lens then transmits lights containing information of the scene such as colours, brightness and shapes to the digital sensor or photographic film. To produce such invention, it comprises complex steps which include material selection and processing, lens machining and finishing. Being the first of its kind, this paper will review the roles of process systems engineering (PSE) in the manufacturing of sustainable photographic lens from R&D and commercial angles. The review will detail PSE contributions for each of the step and highlights the related challenges in implementation. © 2023 Author(s).

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**Correspondence Address**

Razik A.H.A.; Faculty of Chemical & Process Engineering Technology, Gombang, Malaysia; email: abdhali@ump.edu.my

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