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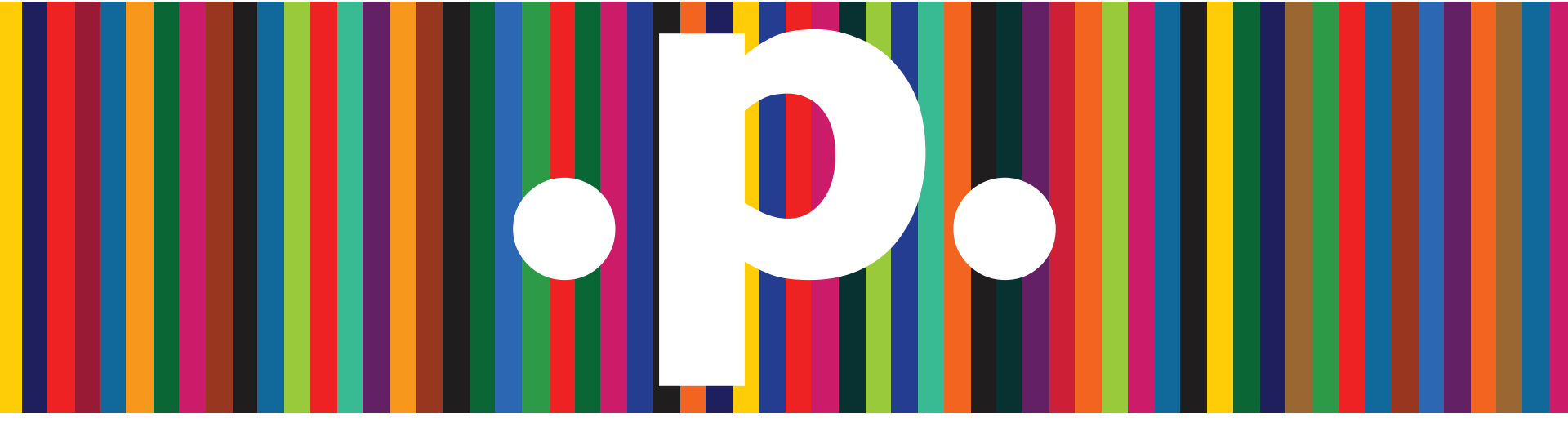

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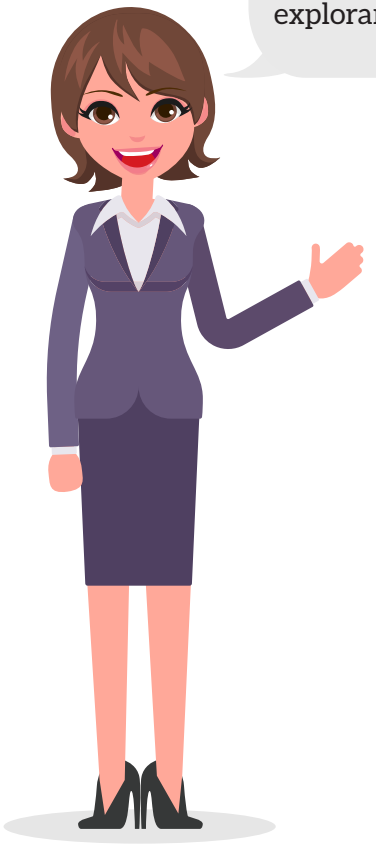

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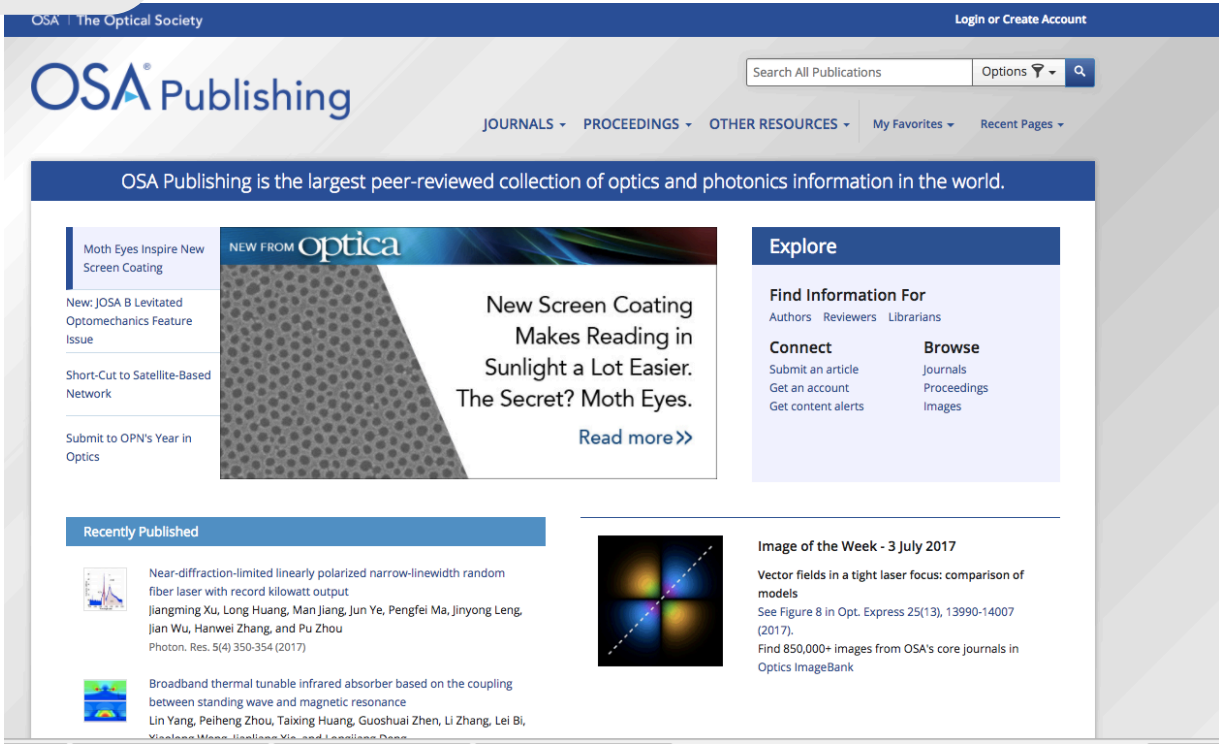

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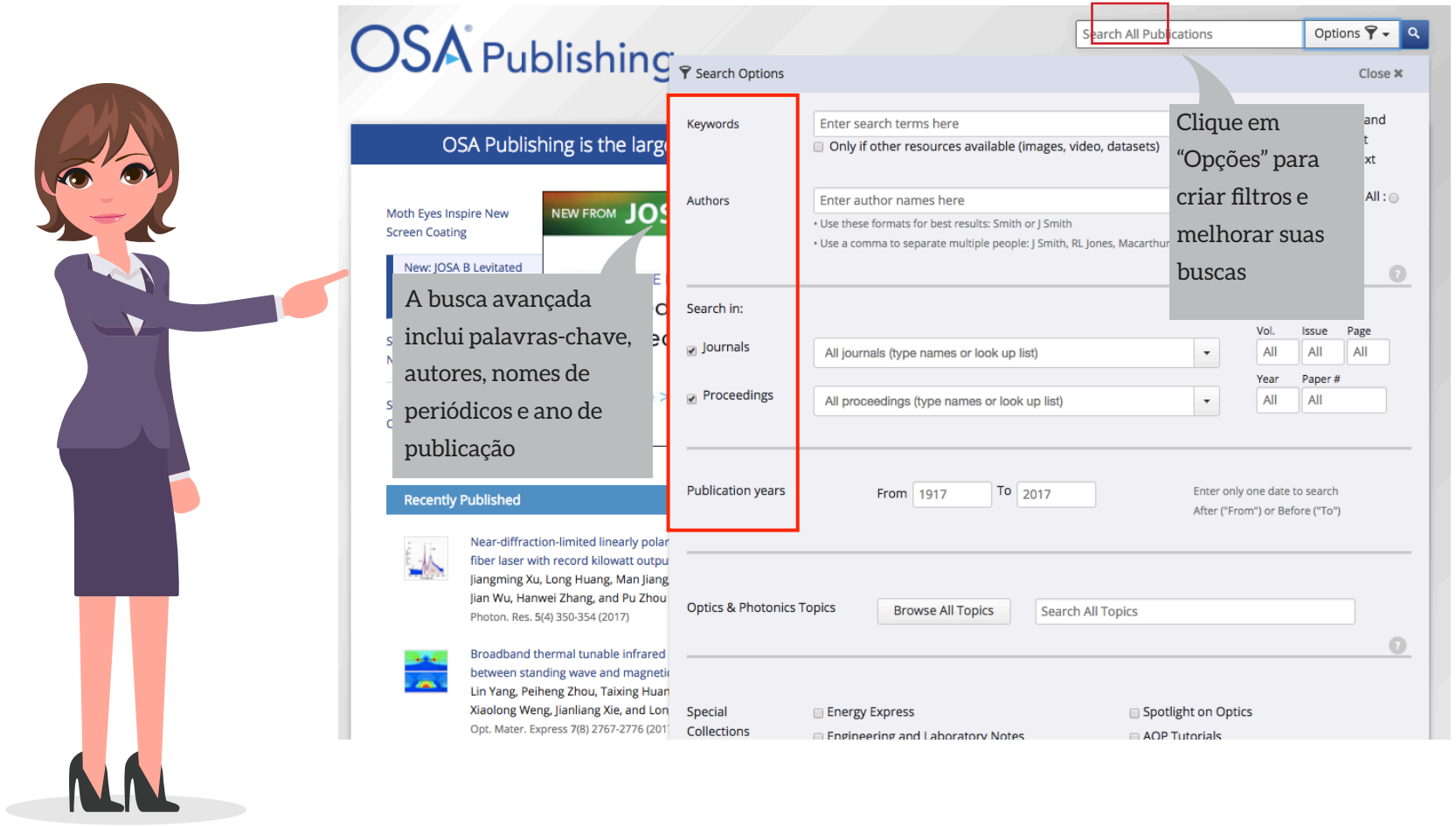
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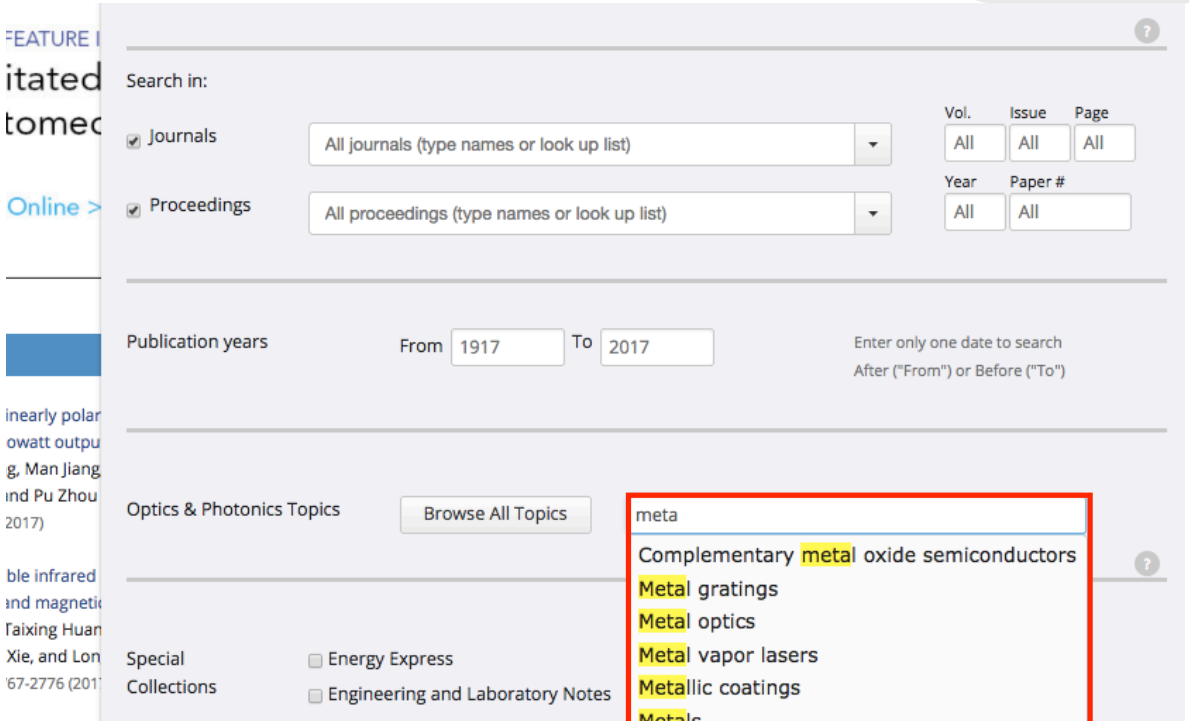

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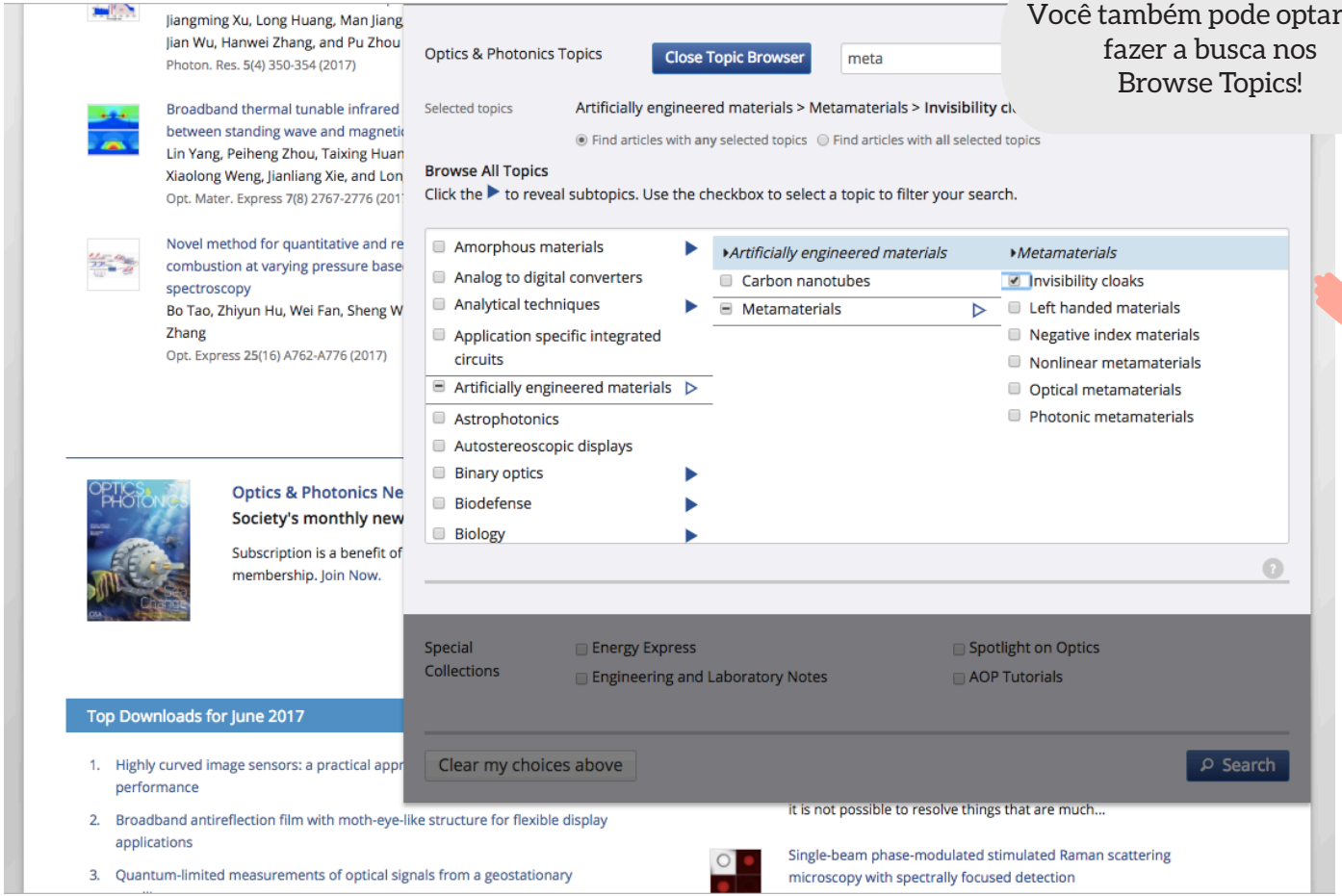
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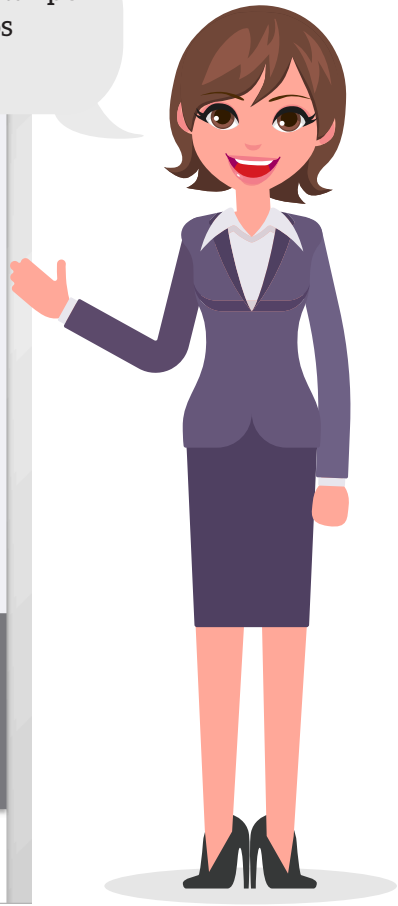
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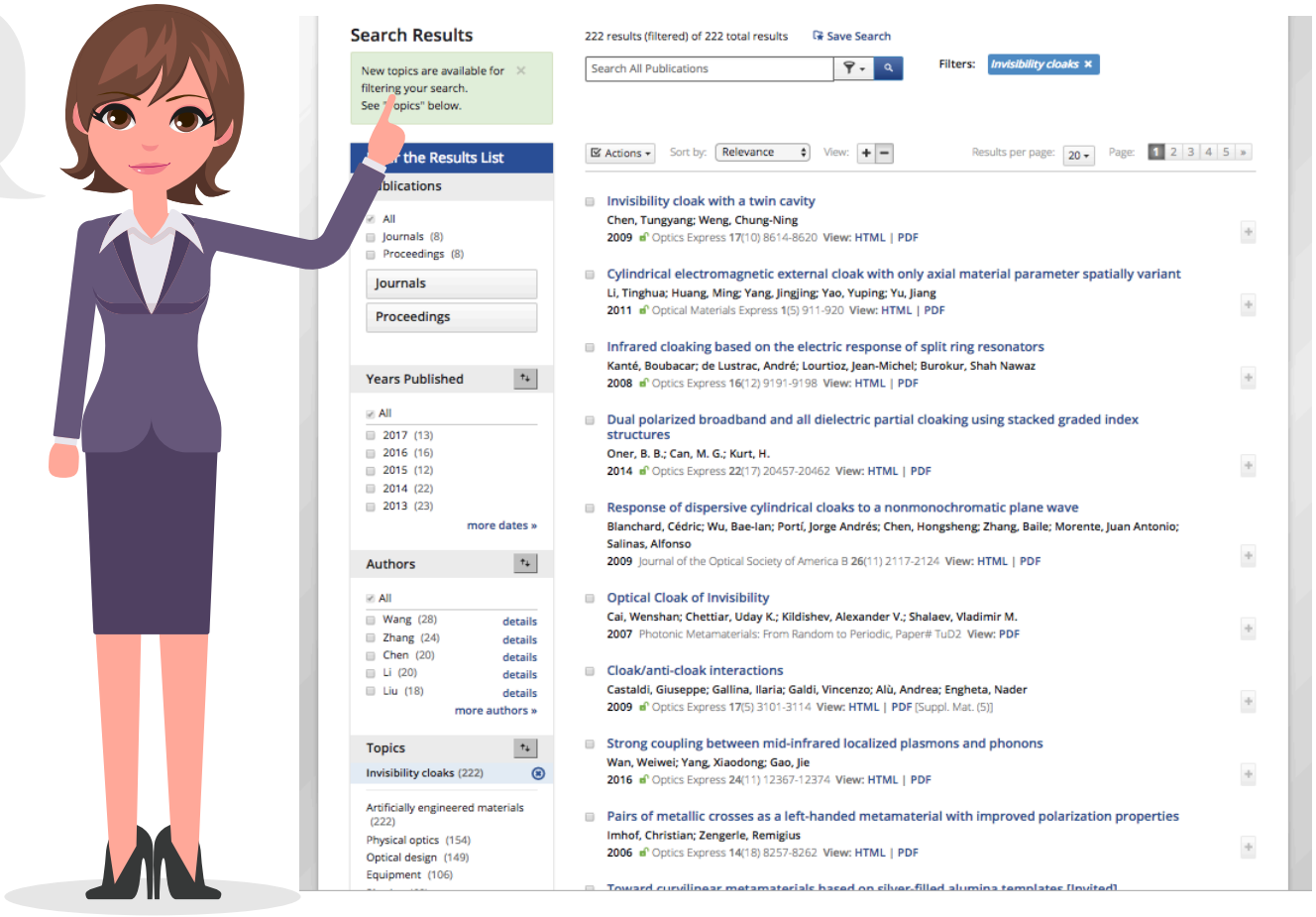

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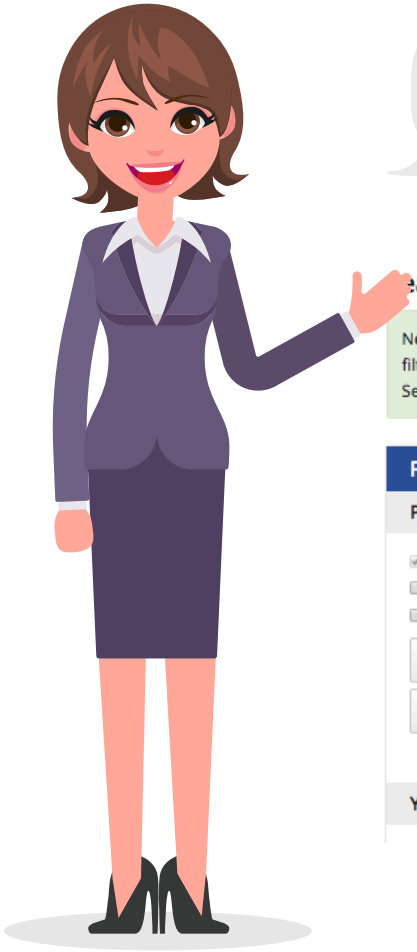

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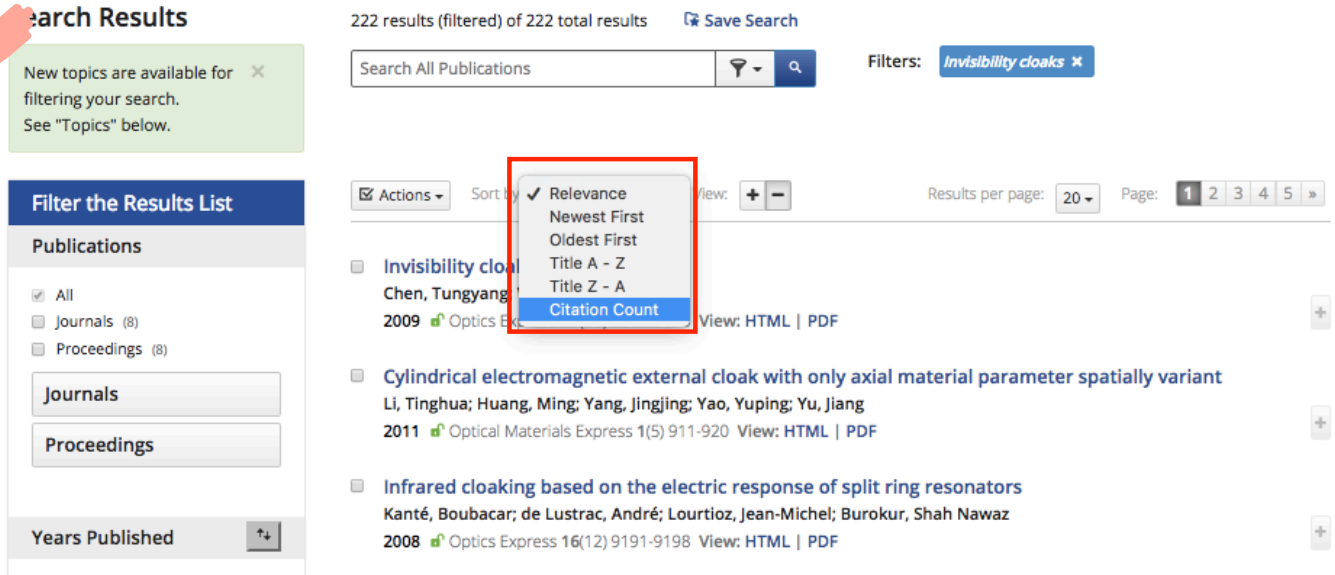

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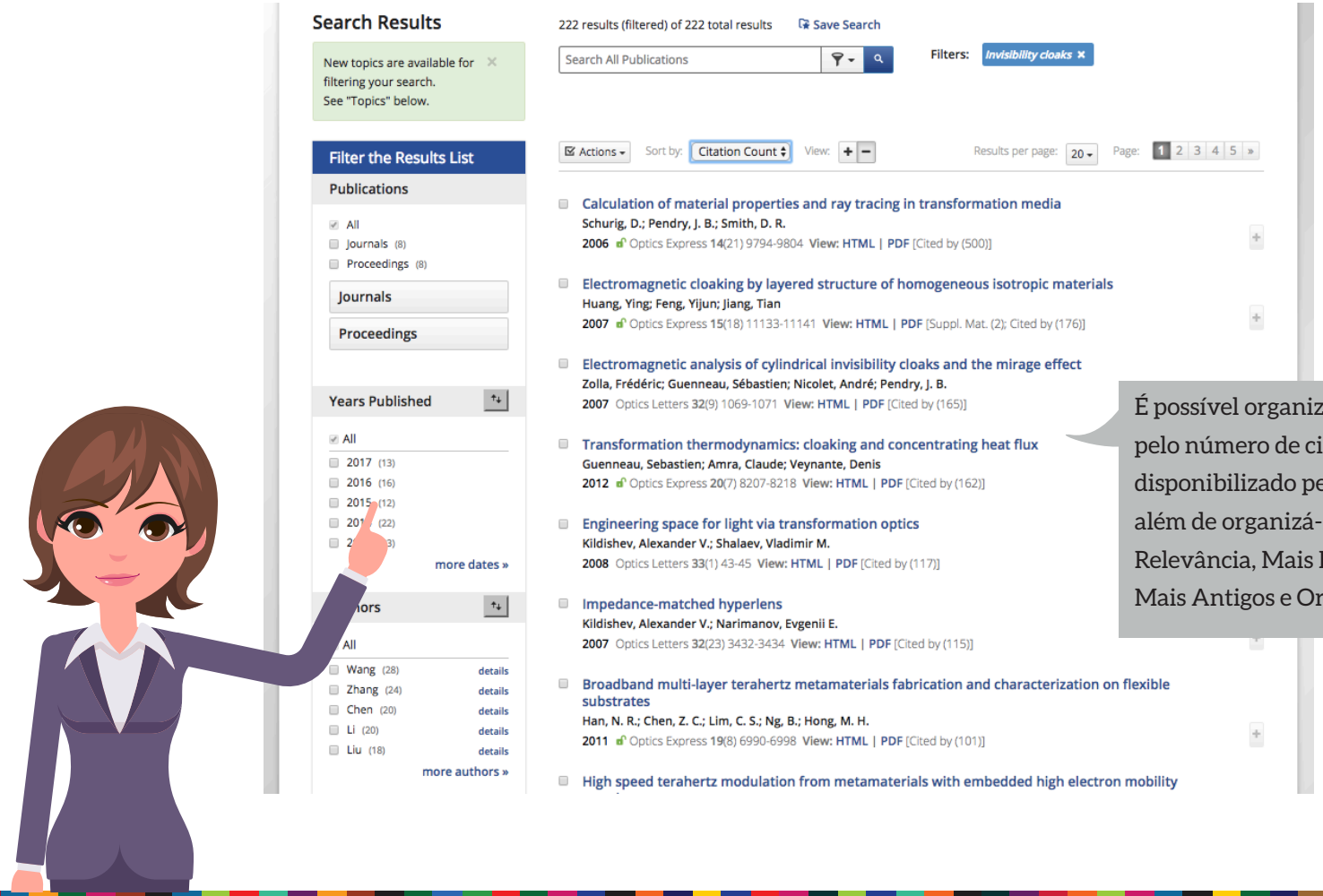

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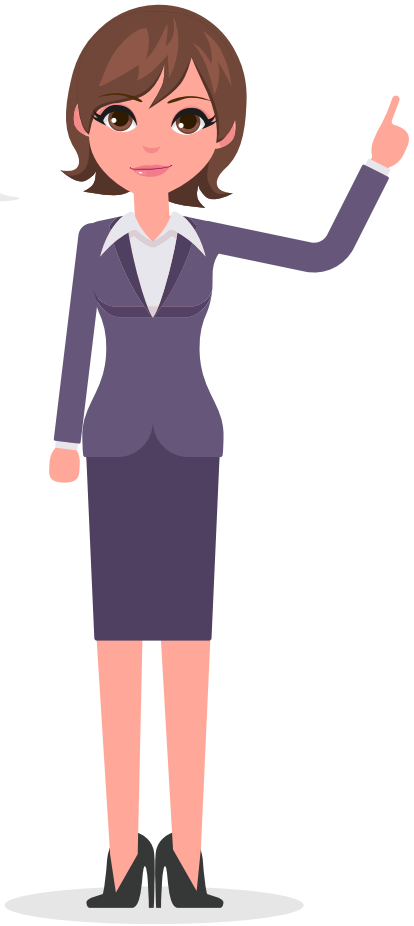

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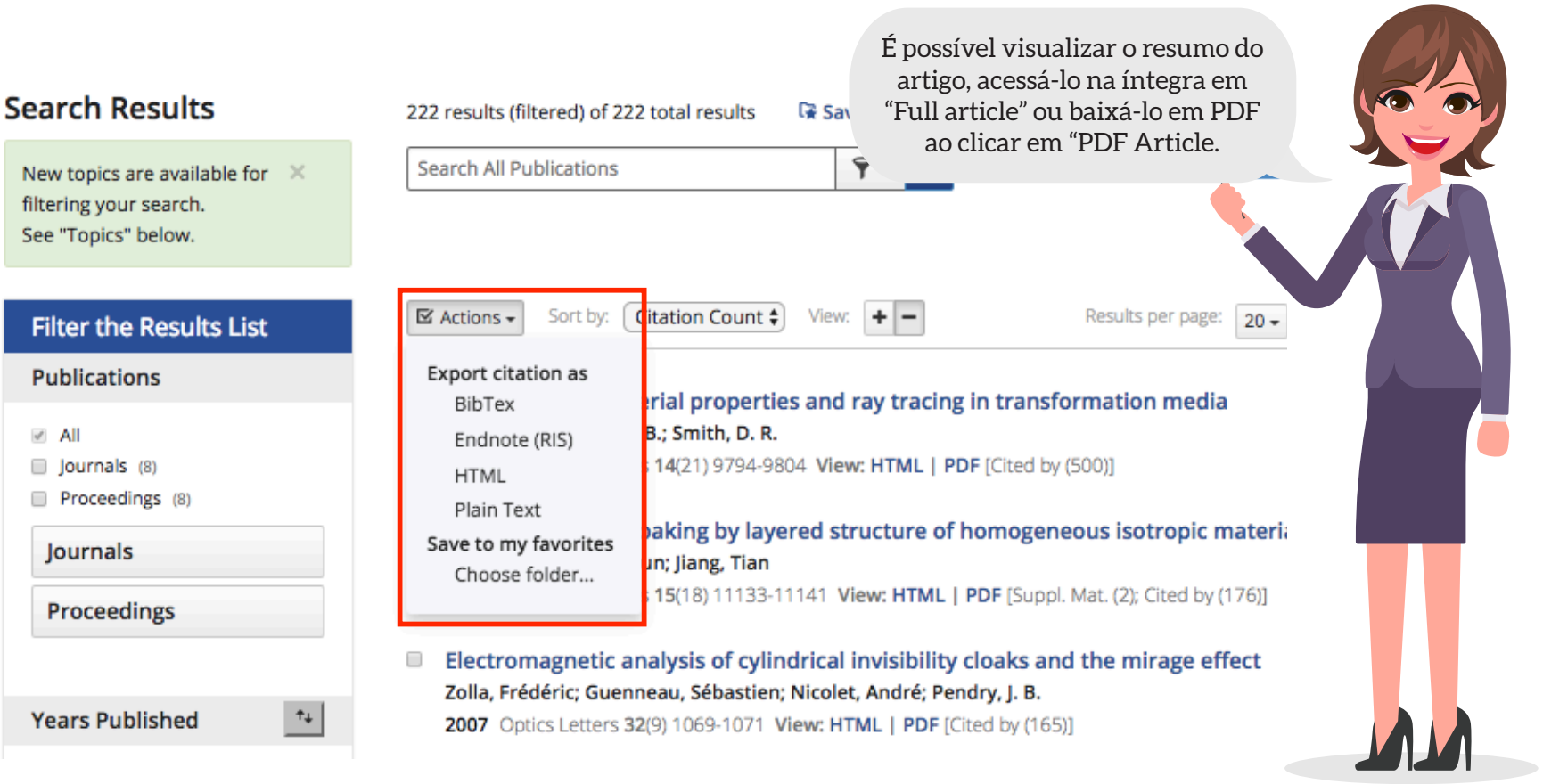
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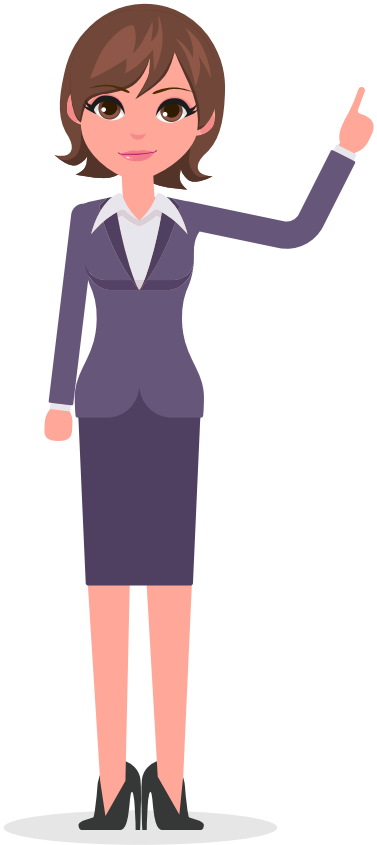

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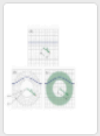
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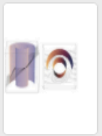
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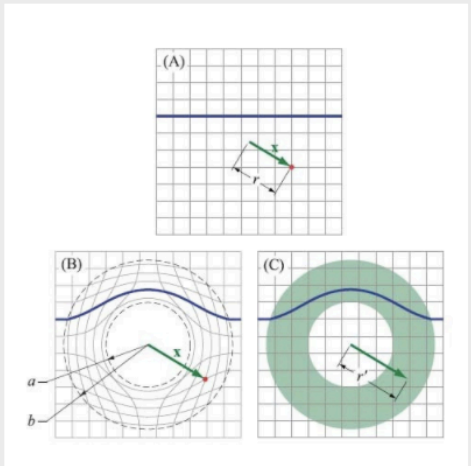

Fig. 1.
The thick blue line shows the path of the same ray in (A) the original Cartesian space, and under two different interpretations of the electromagnetic equations, (B) the topological interpretation and (C) the materials interpretation. The position vector x is shown in both

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$$F_{\alpha\beta,\mu} + F_{\beta\mu,\alpha} + F_{\mu\alpha,\beta} = 0 \quad (1a)$$

$$G^{\alpha\beta}_{,\mu} = J^{\beta} \quad (1b)$$

$$\left(F_{\alpha\beta}\right) = \begin{pmatrix} 0 & E_1 & E_2 & E_3 \\ -E_1 & 0 & -cB_3 & cB_2 \\ -E_2 & cB_3 & 0 & -cB_1 \\ -E_3 & -cB_2 & cB_1 & 0 \end{pmatrix} \quad (2a)$$

$$\left(G^{\alpha\beta}\right) = \begin{pmatrix} 0 & -cD_1 & -cD_2 & -cD_3 \\ cD_1 & 0 & -H_3 & H_2 \\ cD_2 & H_3 & 0 & -H_1 \\ cD_3 & -H_2 & H_1 & 0 \end{pmatrix} \quad (2b)$$

$$\left(J^{\beta}\right) = \begin{pmatrix} c\rho \\ j_1 \\ j_2 \\ j_3 \end{pmatrix} \quad (2c)$$

$$G^{\alpha\beta} = \frac{1}{2} C^{\alpha\beta\mu\nu} F_{\mu\nu} \quad (3)$$

$$C^{\alpha'\beta'\mu'\nu'} = \left|\det\left(\Lambda^{\alpha'}_{\alpha}\right)\right|^{-1} \Lambda^{\alpha'}_{\alpha} \Lambda^{\beta'}_{\beta} \Lambda^{\mu'}_{\mu} \Lambda^{\nu'}_{\nu} C^{\alpha\beta\mu\nu} \quad (4)$$

$$\Lambda^{\alpha'}_{\alpha} = \frac{\partial x^{\alpha'}}{\partial x^{\alpha}} \quad (5)$$

$$\varepsilon^{i'j'} = \left|\det\left(\Lambda^{i'}_{i}\right)\right|^{-1} \Lambda^{i'}_{i} \Lambda^{j'}_{j} \varepsilon^{ij} \quad (6a)$$

$$\mu^{i'j'} = \left|\det\left(\Lambda^{i'}_{i}\right)\right|^{-1} \Lambda^{i'}_{i} \Lambda^{j'}_{j} \varepsilon^{ij} \quad (6b)$$

$$\varepsilon^{i'j'} = \left|\det\left(g^{i'j'}\right)\right|^{-1/2} g^{i'j'} \varepsilon \quad (7)$$

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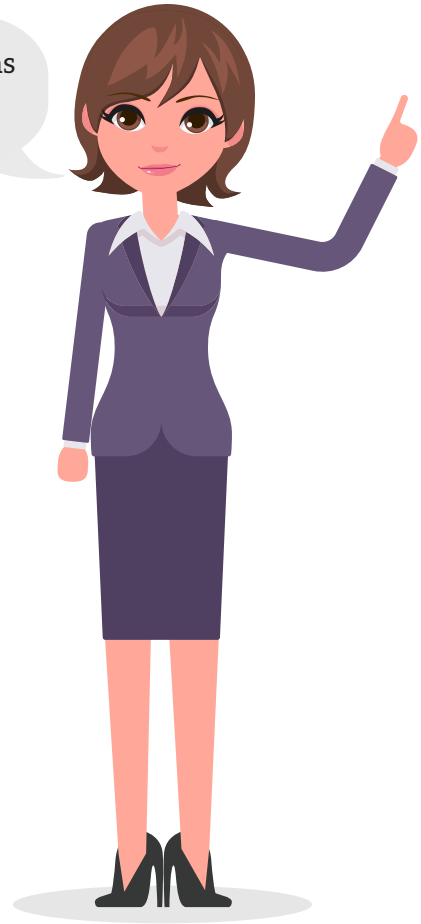

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Invisibility cloaks
Material properties
Optical design
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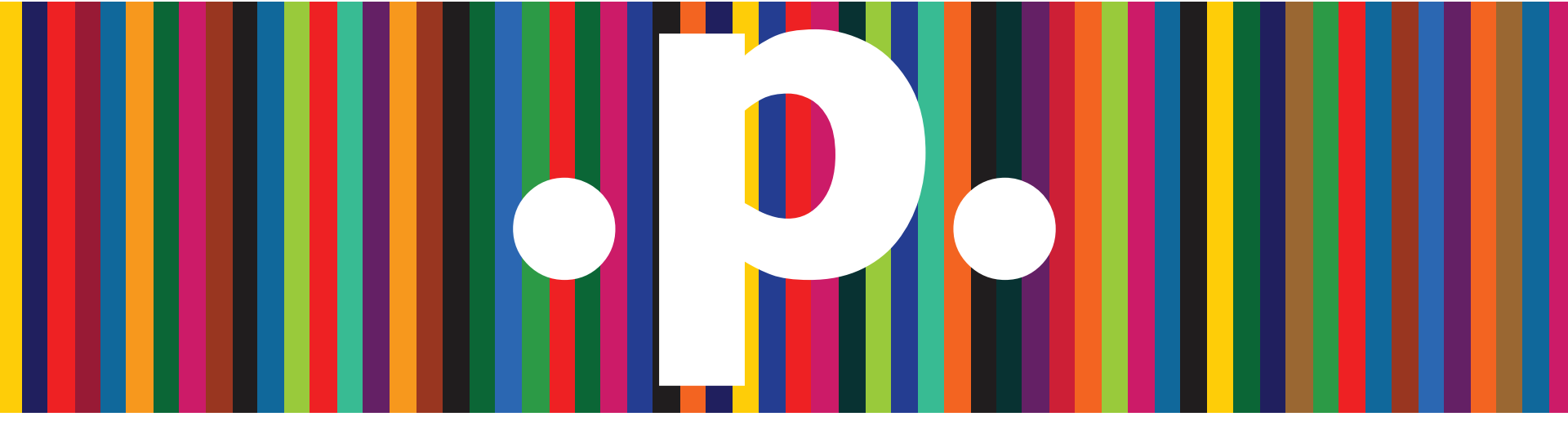

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