

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization

International Bureau

(43) International Publication Date  
05 January 2023 (05.01.2023)



(10) International Publication Number  
**WO 2023/275274 A1**

(51) International Patent Classification:

G01N 15/06 (2006.01) G01N 33/58 (2006.01)  
G01N 33/533 (2006.01) G01N 21/64 (2006.01)

Published:

— with international search report (Art. 21(3))

(21) International Application Number:

PCT/EP2022/068114

(22) International Filing Date:

30 June 2022 (30.06.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

21183266.2 01 July 2021 (01.07.2021) EP

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(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,  
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,  
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,  
HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH,  
KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA,  
MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,  
NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU,  
RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,  
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,  
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,  
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,  
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,  
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
KM, ML, MR, NE, SN, TD, TG).

(54) Title: METHODS AND DEVICES FOR RATIOMETRIC CHARACTERIZATION OF FLUORESCENT PARTICLES

(57) Abstract: The present invention relates to devices and methods for the characterization of fluorescently labeled particles in solution by analyzing alterations in the fluorescence spectrum of the fluorescently labeled particles. In particular, a sample of fluorescently labeled particles is analyzed under different conditions/ environments by fluorescent excitation and detection of the corresponding fluorescence emissions. The particles are characterized by analyzing the detected fluorescence emissions under these different conditions/ environments. More specifically, the present invention relates to methods and devices for ratiometric characterization of inter- and/or intramolecular interactions, and/or conformational modifications and/or localization of fluorescently labeled particles.



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