

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2018/124285

A. CLASSIFICATION OF SUBJECT MATTER		
G01N 21/65(2006.01);		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) G01N21/-		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CNABS, CNTXT, WPI, EPODOC, CAPLUS(STN), CNKI: 手性, 拉曼, 表面增强拉曼散射, 表面增强拉曼光谱, 非偏振光, 螺旋纤维, 花形, 扇形, 螺旋桨形, 金, 银, 铜, 铂, 氧化铜, 氧化钛, 氧化锌, 氧化锡, 氧化铁, 氧化钴, chiral, chirality, surface enhanced Raman Spectroscopy, SERS, gold, silver, copper, platinum, copper oxide, titanium oxide, zinc oxide, tin oxide, iron oxide, cobalt oxide, G01N21/-		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	袁旭寒 (YUAN, Xuhan). "基于表面增强拉曼散射的手性传感器及其机理研究 (A Chiral Sensor Based on Surface Enhanced Raman Scattering and Its Mechanism Research)" 中国优秀硕士学位论文全文数据库(信息科技辑) (<i>Chinese Master's Theses Full-Text Database, Information Science & Technology</i>), No. 6, 15 June 2018 (2018-06-15), pp. 1140-248	1-9
X	钟桐生等 (ZHONG, Tongsheng et al.). "基于纳米通道表面增强拉曼散射光谱分离检测组氨酸对映体的研究 (Chiral Separation and Identification of D, L-Histidine Based on Nanochannels Membrane Coupling with Surface Enhanced Raman Scattering Spectroscopy)" 分析化学 (<i>Chinese Journal of Analytical Chemistry</i>), Vol. 11, No. 43, 30 November 2015 (2015-11-30), pp. 1695-1700	1-9
A	WO 2007134446 A1 (THE UNIVERSITY OF WESTERN ONTARIO et al.) 29 November 2007 (2007-11-29) the abstract	1-9
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 23 August 2019		Date of mailing of the international search report 11 September 2019
Name and mailing address of the ISA/CN China National Intellectual Property Administration (ISA/CN) No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088 China Facsimile No. (86-10)62019451		Authorized officer Telephone No.

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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 101776604 A (INSTITUTE OF OPTICS AND ELECTRONICS, CHINESE ACADEMY OF SCIENCES) 14 July 2010 (2010-07-14) description, paragraphs [0004]-[0017]	1-9
A	CN 101865841 A (BEIHANG UNIVERSITY) 20 October 2010 (2010-10-20) description, paragraphs [0009] and [0011]	1-9
A	CN 105259157 A (HEIFEI UNIVERSITY) 20 January 2016 (2016-01-20) description, paragraph [0007]	1-9

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2018/124285

Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
WO	2007134446	A1	29 November 2007	US	2009170213	A1	02 July 2009
CN	101776604	A	14 July 2010	CN	101776604	B	12 June 2013
CN	101865841	A	20 October 2010	CN	101865841	B	29 August 2012
CN	105259157	A	20 January 2016	CN	105259157	B	16 January 2018