

DETECTION								
S.No.	Author	Title	Year	Journal	Vol	Number	Article No.	DOI
1	De-la-Torrea G., Diones D., Castroa J., Antaya R., Yupanqui N., Espinoza D., Saldaña M.	Abundance and distribution of microplastics on sandy beaches of Lima, Peru	2019	Marine Pollution Bulletin	151		110877	10.1016/j.marpolbul.2019.110877
2	Fatahi M., Akdoga G., Dorfling C., Wyk V.	Numerical Study of Microplastic Dispersal in Simulated Coastal Waters Using CFD Approach	2021	Water	13	23	233432	10.3390/w13233432
3	Leslie H., Van M., Brandsma S., Vethaak A., Garcia J., Lamoree M.	Discovery and quantification of plastic particle pollution in human blood	2022	Environment International	163		107199	10.1016/j.envint.2022.107199
4	Leonard J., Ceylan H., Koutnik V., Tseng D., Ozcan A., Mohanty S.	Smartphone-enabled rapid quantification of microplastics	2022	Journal of Hazardous Materials Letters	3		100052	10.1016/j.hazl.2022.100052
5	Shi B., Patel M., Yu D., Jihui Y., Li Z., Petriw D., Pruyn T., Smyth K., Passeport E., Miller D., Howe J.	Automatic quantification and classification of microplastics in scanning electron micrographs via deep learning	2022	Science of the Total Environment	825		153903	10.1016/j.scitotenv.2022.153903
6	Li Q., Feng Z., Zhang T., Ma C., Shi H.	Microplastics in the commercial seaweed nori	2020	Journal of Hazardous Materials	388		122060	10.1016/j.jhazmat.2020.122060
7	Zhu Y., Lo H., Yeung C., Lam E.	Microplastic pollution assessment with digital holography and zero-shot learning	2022	APL Photonics	7		076102	10.1063/5.0093439
8	Zhou F., Wang X., Wang G., Zuo Y.	A Rapid Method for Detecting Microplastics Based on Fluorescence Lifetime Imaging Technology (FLIM)	2022	Toxics	10	3	030118	10.3390/toxics10030118
9	Dimaano R., Albo A., Adion A., Brucal J.	ANTIPARA (Analysis of Tiny Particles in Aquatic Environment): A Water Scanning Device for Microplastics	2020	International Journal of Advanced Trends in Computer Science and Engineering	9	4	942020	10.30534/ijatcse/2020/150942020
10	Paredes M., Castillo T., Viteri R., Fuentes G., Boderio E.	Microplastics in the drinking water of the Riobamba city, Ecuador	2019	Engineering and Environmental Sciences	28	4		10.22630/PNIKS.2019.28.4.59
11	Mallow O., Spacek S., Schwarzböck T., Fellner J., Rechberger H.	A new thermoanalytical method for the quantification of microplastics in industrial wastewater	2019	Environmental Pollution	259		113862	10.1016/j.envpol.2019.113862
12	Hernández J., Cano H., Guerra Y., Puello E., Ríos J., Vivas R., Oviedo J.	Identification and Quantification of Microplastics in Effluents of Wastewater Treatment Plant by Differential Scanning Calorimetry (DSC)	2022	Sustainability	14		4920	10.3390/su14094920
13	Li P., Li Q., Hao Z., Yu S., Liu J.	Analytical methods and environmental processes of nanoplastics	2020	Journal of Evironmental Sciences	94			10.1016/j.jes.2020.03.057
14	Frigione M., Marini G., Pinna M.	A Thermal Analysis-Based Approach to Identify Different Waste Macroplastics in Beach Litter: The Case Study of Aquatina di Frigole NATURA 2000 Site (IT9150003, Italy)	2021	Sustainability	13		3186	10.3390/su13063186
15	Huan Z., Hu B., Wang H.	Analytical methods for microplastics in the environment: a review	2022	Environmental Chemistry Letters	21			10.1007/s10311-022-01525-7
16	Woo H., Seo K., Choi Y., Kim J., Tanaka M., Lee K., Choi J.	Methods of Analyzing Microsized Plastics in the Environment	2021	Applied Sciences	11		10640	10.3390/app112210640
17	Martic S., Tabobondung M., Gao S., Lewis T.	Emerging electrochemical tools for microplastics remediation and sensing	2022	Frontiers in Sensors	3		958633	10.3389/fsens.2022.958633
18	Bitter H., Lackner S.	Fast and easy quantification of semi-crystalline microplastics in exemplary environmental matrices by differential scanning calorimetry (DSC)	2021	Chemical Engineering Journal	423		129941	10.1016/j.cej.2021.129941
19	H. A. Nel, A.J. Chetwynd.	An Untargeted Thermogravimetric Analysis-Fourier Transform Infrared-Gas Chromatography-Mass Spectrometry Approach for Plastic Polymer Identification	2021	Environmental Science & Technology	55	13	8721	10.1021/acs.est.1c01085
20	Zainuddin Z., Syuhada	Study of Analysis Method on Microplastic Identification in Bottled Drinking Water	2020	Macromolecular Symposia	391		1900195	10.1002/masy.201900195
21	Rodríguez M., Sierra I., Pérez A., Fornaro L.	Identification and quantitation of semi-crystalline microplastics using image analysis and differential scanning calorimetry	2018	Environmental Science and Pollution Research	25			10.1007/s11356-018-1846-0
22	E. Hendrickson, E. C. Minor, and K. Schreiner	Microplastic Abundance and Composition in Western Lake Superior As Determined via Microscopy, Pyr-GC/MS, and FTIR	2018	Environmental Science & Technology	52	4	1787	10.1021/acs.est.7b05829.

23	C. A. Peters, E. Hendrickson, E. C. Minor, K. Schreiner, J. Halbur, and S. P. Bratton	Pyr-GC/MS analysis of microplastics extracted from the stomach content of benthivore fish from the Texas Gulf Coast	2018	Marine Pollution Bulletin	137			10.1016/j.marpolbul.2018.09.049
24	Müsellim E., Hussain M., Sajjad M., Ceylan S.	Thermokinetic and TG/DSC-FTIR study of pea waste biomass pyrolysis	2018	Applied Thermal Engineering	137			10.1016/j.applthermaleng.2018.03.050
25	Hamdy S., Ghobashy M., Saad R.	Identification of marine microplastics in Eastern Harbor, Mediterranean Coast of Egypt, using differential scanning calorimetry	2019	Marine Pollution Bulletin	142			10.1016/j.marpolbul.2019.03.062
26	Nguyen B., Claveau D., Hernandez L., Xu E., Farner J., Tufenkji N.	Separation and Analysis of Microplastics and Nanoplastics in Complex Environmental Samples	2019	American Chemical Society	52	4		10.1021/acs.accounts.8b00602
27	Xu G., Cheng H., Jones R., Feng Y., Gong K., Li K., Fang X., Tahir M., Valev K., Zhang L.	Surface-Enhanced Raman Spectroscopy Facilitates the Detection of Microplastics <1 µm in the Environment	2020	Environmental Science & Technology	54	24		10.1021/acs.est.0c02317
28	Veerasingam S., Ranjani M., Venkatachalapathy R., Bagaev A., Mukhanov V., Litvinyuk D., Mugilarasan M., Gurumoorthi K., Gunganathan L., Aboobacker V., Vethamony P.	Contributions of Fourier transform infrared spectroscopy in microplastic pollution research: A review	2020	Critical Reviews in Environmental Science and Technology	51	22		10.1080/10643389.2020.1807450
29	Zhang M., Li J., Ding H., Ding J., Jiang F., Ding N., Sun C.	Distribution Characteristics and Influencing Factors of Microplastics in Urban Tap Water and Water Sources in Qingdao, China	2019	Analytical Letters	53	8		10.1080/00032719.2019.1705476
30	Y. Chen, D. Wen, J. Pei, Y. Fei, D. Ouyang, H. Zhang and Y. Luo	Identification and quantification of microplastics using Fourier transform infrared spectroscopy: Current status and future prospects	2020	Environmental Science & Health	18			10.1016/j.coesh.2020.05.004
31	C. Campanale, I. Savino, C. Massarelli, and V. F. Uricchio	Fourier Transform Infrared Spectroscopy to Assess the Degree of Alteration of Artificially Aged and Environmentally Weathered Microplastics	2023	Polymers	15	4		10.3390/polym15040911
32	Gela S., Aragaw T.	Abundance and Characterization of Microplastics in Main Urban Ditches Across the Bahir Dar City, Ethiopia	2022	Frontiers in Environmental Science	10		831417	10.3389/fenvs.2022.831417
33	Papadimitriou M., Allison G.	Microplastics in the Mediterranean marine environment: a combined bibliometric and systematic analysis to identify current trends and challenges	2022	Microplastics and Nanoplastics	2	8		10.1186/s43591-022-00026-2
34	J. Fojt, I. Románeková, P. Procházková, J. David, M. Brtnický, and J. Kučerík	A Simple Method for Quantification of Polyhydroxybutyrate and Polylactic Acid Micro-Bioplastics in Soils by Evolved Gas Analysis	2022	Molecules	27	6		10.3390/molecules27061898
35	González M., Hernández C., González J., López J., Hernández J.	Monitoring of meso and microplastic debris in Playa Grande beach (Tenerife, Canary Islands, Spain) during a moon cycle	2019	Marine Pollution Bulletin	150		110757	10.1016/j.marpolbul.2019.110757