

Covalent Organic Frameworks Market, Global Outlook and Forecast 2022-2028

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Abstracts

Covalent organic frameworks (COFs) are an emerging class of functional nanostructures with intriguing properties, due to their unprecedented combination of high crystallinity, tunable pore size, large surface area, and unique molecular architecture. Covalent organic frameworks are two or three dimensional organic solids. We can abbreviate them as COFs. These material have extended structures with building blocks which are bonded to each other via covalent chemical bonds. These linkages are strong covalent bonds. Usually, COFs are porous and crystalline structures. Moreover, these materials are made of light elements; mainly hydrogen (H), boron (B), carbon (C), nitrogen (N), and oxygen (O). These light chemical elements usually form strong covalent bonds. Some common examples of covalent organic framework include diamond, graphite, and boron nitride.

This report contains market size and forecasts of Covalent Organic Frameworks in Global, including the following market information:

Global Covalent Organic Frameworks Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global top five companies in 2021 (%)

The global Covalent Organic Frameworks market was valued at 86 million in 2021 and is projected to reach US\$ 531 million by 2028, at a CAGR of 29.8% during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.



Two-dimensional (2D) Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Covalent Organic Frameworks include ACS Material, Lumtec, April Scientific, Shanghai Kaishu, Shanghai Tensus and Nanjing Sanhao, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Covalent Organic Frameworks companies, and industry experts on this industry, involving the revenue, demand, product type, recent developments and plans, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Covalent Organic Frameworks Market, by Type, 2017-2022, 2023-2028 (\$ millions)

Global Covalent Organic Frameworks Market Segment Percentages, by Type, 2021 (%)

Two-dimensional (2D)

Three-dimensional (3D)

Global Covalent Organic Frameworks Market, by Application, 2017-2022, 2023-2028 (\$ millions)

Global Covalent Organic Frameworks Market Segment Percentages, by Application, 2021 (%)

Gas Storage and Separation

Catalysis

Sensing

Energy Storage



Optoelectronics

Global Covalent Organic Frameworks Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions)

Global Covalent Organic Frameworks Market Segment Percentages, By Region and Country, 2021 (%)

ntry, 2021 (%)			
	North America		
		US	
		Canada	
		Mexico	
Europe		9	
		Germany	
		France	
		U.K.	
		Italy	
		Russia	
		Nordic Countries	
		Benelux	
		Rest of Europe	
	Asia		
		China	



Japan		
South Korea		
Southeast Asia		
India		
Rest of Asia		
South America		
Brazil		
Argentina		
Rest of South America		
Middle East & Africa		
Turkey		
Israel		
Saudi Arabia		
UAE		
Rest of Middle East & Africa		
Competitor Analysis		
The report also provides analysis of leading market participants including:		
Key companies Covalent Organic Frameworks revenues in global market, 2017-2022 (estimated), (\$ millions)		

Key companies Covalent Organic Frameworks revenues share in global market, 2021

Covalent Organic Frameworks Market, Global Outlook and Forecast 2022-2028



(%)

Further, the report presents profiles of competitors in the market, key players include:

ACS Material

Lumtec

April Scientific

Shanghai Kaishu

Shanghai Tensus

Nanjing Sanhao



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