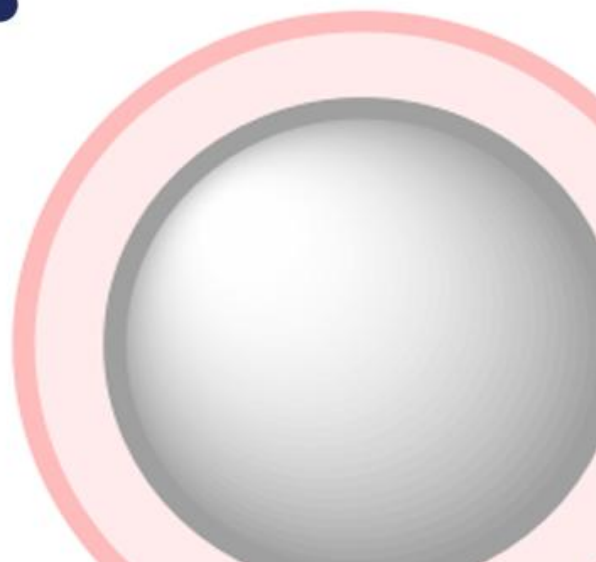
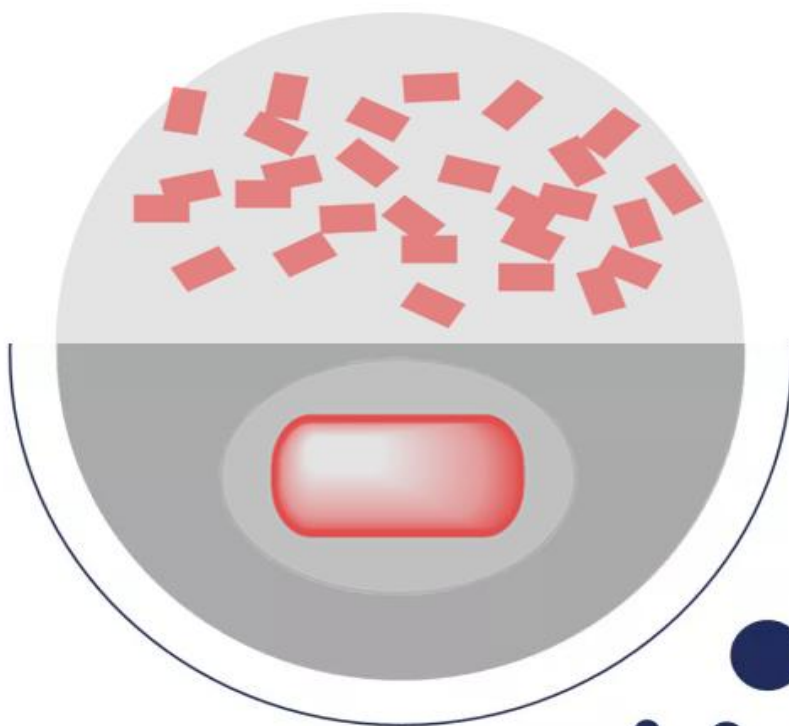


特殊形状纳米颗粒 宣传册



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序

纳米技术是一种有关了解与掌握在纳米规模时之物质性质的新知识：一个纳米（即十亿分之一米）是一个小型分子的长度。在这样的情况下，物质的性质表现得不同而且经常很奇妙；现有各种科学与技术的区分界限也就消失了。因此，纳米技术的一种重要特性就是跨学科的。

纳米技术经常被描述为在工业生产方式上可能具有一种“破裂性”或“革命性”的能力。纳米技术可能可以透过更小、更轻、更快、更好的各种材料，为人类科研解决更多的技术难题。

纳米技术无处不在，是当今社会发展的创新技术。百欧泰生物可以提供多种纳米材料：

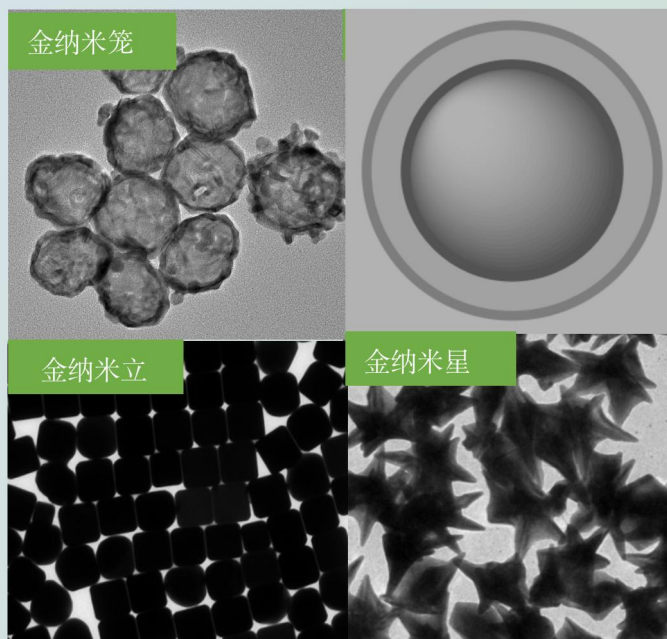
金属纳米材料：金纳米颗粒、金纳米棒、金纳米海胆、银纳米颗粒、特殊形状纳米颗粒

磁性微球：聚苯乙烯磁珠、 SiO_2 磁珠、 Fe_3O_4 磁珠、磁力架等

单分散微球：聚苯乙烯微球、 SiO_2 微球、PMMA 微球等

其他材料：上转换纳米材料、量子点、荧光微球、色谱填料

特殊形状的纳米颗粒



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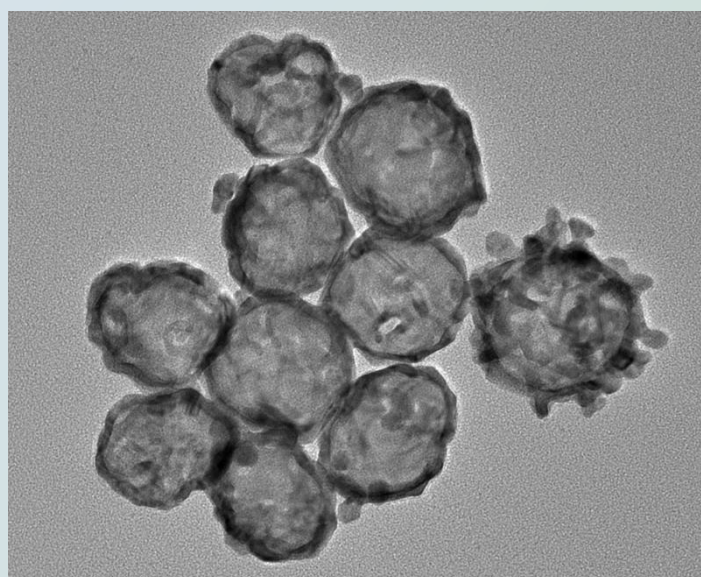
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1 特殊形状纳米颗粒

1.1 金纳米笼 Gold Nanocage

Gold nanocages represent a novel class of nanostructures ranging in size from 40 to over 280 nm with hollow interior and porous walls. Galvanic replacement reaction between silver (Ag) nanocubes and chloroauric acid (HAuCl₃) offers a simple yet elegant method to prepare complementary hollow gold nanocages with controllable void size, wall thickness, and wall porosity. Gold nanocages are biocompatible and have a tunable surface plasmon resonance peak that extends into the near-infrared, where the optical attenuation caused by blood and soft tissue is essentially negligible. At the resonant frequency, most incident photons are absorbed by gold nanocages and converted into phonons or vibrations of the lattice due to their high NIR absorption cross-section. The subsequently generated heat can cause local hyperthermia as well as thermo-elastic expansion. This photothermal effect of Au nanocages makes them particularly attractive for therapeutic applications.



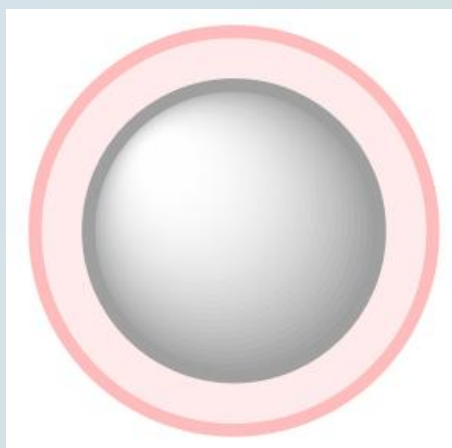
【相关产品信息】

Cat No	Product Name	Size	Surface
ABZ-3-40	Gold Nanocage, 40 nm	10 ml	PVP
ABZ-3-50	Gold Nanocage, 50 nm	10 ml	PVP

ABZ-3-70	Gold Nanocage, 70 nm	10 ml	PVP
ABZ-3-90	Gold Nanocage, 90 nm	10 ml	PVP
ABZ-3-100	Gold Nanocage, 100 nm	10 ml	PVP
ABZ-3-120	Gold Nanocage, 120 nm	10 ml	PVP
ABZ-3-180	Gold Nanocage, 180 nm	10 ml	PVP
ABZ-3-230	Gold Nanocage, 230 nm	10 ml	PVP
ABZ-3-280	Gold Nanocage, 280 nm	10 ml	PVP

1.2 Gold nanoshell

Gold nanoshells consist of a silica core surrounded by a gold shell. By changing the ratio of the size of the core to the thickness of the shell, the plasmon resonance can be tuned across the visible and infrared. Increasing the size of the silica core, and decreasing the thickness of the gold shell cause the plasmon resonance to shift toward the NIR.



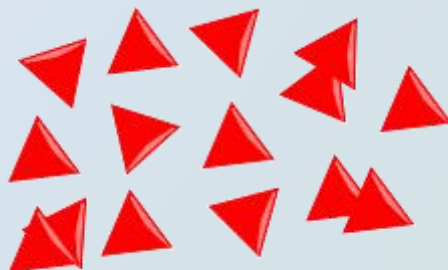
【相关产品信息】

Cat No	Product Name	Size	Surface
ABZ-4-120	Gold Nanoshell, 120 nm	10 ml	PEG
ABZ-4-160	Gold Nanoshell, 160 nm	10 ml	PEG
ABZ-4-240	Gold Nanoshell, 240 nm	10 ml	PEG

1.3 Gold Nanosheet

The gold nano-triangular sheet exhibits an obvious plasmon resonance absorption peak that can be red-shifted to the near-infrared region. This strong absorption makes the gold nano-sheet

exhibit potential application value in tumor hyperthermia, infrared absorption coatings and other fields.



【相关产品信息】

Cat No	Product Name	Size	Surface
ABZ-5-140	Gold Nanosheets, 140 nm $\pm$ 25 nm	10 ml	CTAB

1.4 Gold Nanostar

Gold nanostars have multiple arms with sharp corners, which can generate high electric field amplification at the sharp corners.



【相关产品信息】

Cat No	Product Name	Size	Surface
ABZ-7	Gold Nanostars, 70 nm	10 ml	CTAB

1.5 Gold Nanobipyramids

Gold Nanobipyramids are one-dimensional gold nanoparticles with the best optical

performance so far. The monodispersity is perfect. Due to the sharp shape at both ends, the electric field enhancement of Gold Nanobipyramids is better than gold nanorod. The refractive index sensitivity is far more than gold nanorod. These properties make Gold Nanobipyramids extremely attractive for various applications based on surface plasmon resonance.

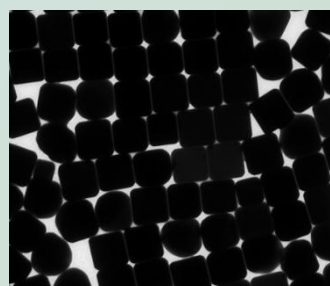
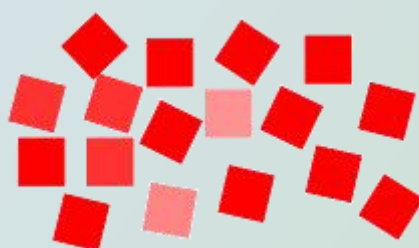


【相关产品信息】

Cat No	Product Name	Size	Surface
ABZ-9-20-700	Gold Nanobipyramids, 20-55 nm, 506 nm	10 ml	CTAB
ABZ-9-35-785	Gold Nanobipyramids, 35-105 nm, 513 nm	10 ml	CTAB
ABZ-9-35-815	Gold Nanobipyramids, 35-110 nm, 512 nm	10 ml	CTAB
ABZ-9-45-850	Gold Nanobipyramids, 45-140 nm, 517 nm	10 ml	CTAB

1.6 Gold Nanocube

Gold Nanocubes products use deionized water as the solvent, and the CTAB content of the cosolvent does not exceed 0.01 M.



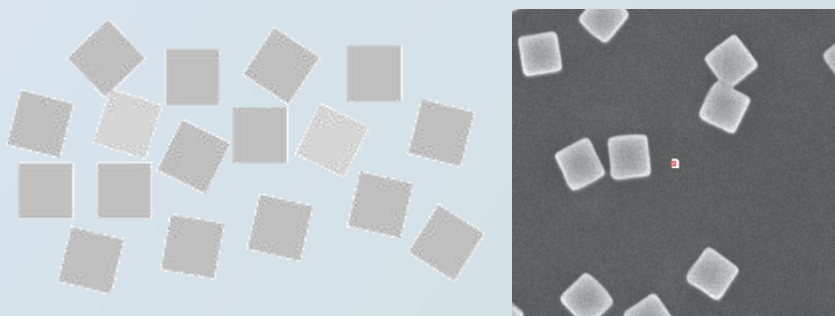
【相关产品信息】

Cat No	Product Name	Size	Surface
ABZ-11-50	Gold Nanocubes, 50 nm	10 ml	CTAB

ABZ-11-90	Gold Nanocubes, 90 nm	10 ml	CTAB
ABZ-11-170	Gold Nanocubes, 170 nm	10 ml	CTAB

1.7 Silver nanocube

Silver nanocubes are garnering considerable attention due to their distinctive morphology that imparts unique optical, electric, and chemical properties that are highly tunable.



【相关产品信息】

Cat No	Product Name	Size	Surface
ABN-13-50	Silver Nanocube, 50 nm	10 ml	PVP
ABN-13-73	Silver Nanocube, 73 nm	10 ml	PVP
ABN-13-100	Silver Nanocube, 100 nm	10 ml	PVP

1.8 其他特殊形状的纳米颗粒

Cat No	Product Name	Size	Surface
ABN-12-Pd-3	Palladium nanoparticles, 3 nm	10 ml	PVP
ABN-12-Pd-10	Palladium nanoparticles, 10 nm	10 ml	PVP
ABN-12-18	Palladium nanoparticles, 20-30nm, COOH	10 ml	COOH
ABN-12-Pt-3-PVP	Platinum nanoparticles, 3 nm	10 ml	PVP
ABN-12-19	Platinum nanoparticles, 5 nm	10 ml	Citrate
ABN-12-20	Platinum nanoparticles, 30 nm	20 ml	Citrate
ABN-12-21	Platinum nanoparticles, 50 nm	20 ml	Citrate
ABN-12-22	Platinum nanoparticles, 70 nm	20 ml	Citrate
ABN-Ru-3	Ruthenium Nanoparticles, 3 nm	10 ml	PVP

ABN-Rd-3	Rhodium nanoparticles, 3 nm	10 ml	PVP
ABGN-150	Hexagonal Gold Nanoplates, 150 nm	10 ml	CTAB
ABNU-50	Gold NanoUrchins, 50 nm	10 ml	Citrate
ABNU-60	Gold NanoUrchins, 60 nm	10 ml	Citrate
ABNU-70	Gold NanoUrchins, 70 nm	10 ml	Citrate
ABNU-80	Gold NanoUrchins, 80 nm	10 ml	Citrate
ABNU-90	Gold NanoUrchins, 90 nm	10 ml	Citrate
ABNU-100	Gold NanoUrchins, 100 nm	10 ml	Citrate
ABN-MnO ₂ -20	MnO ₂ Nanoparticles 20-30nm-COOH	2.5 ml	COOH
ABN-MnO ₂ -50	MnO ₂ Nanoparticles 50nm-COOH	2.5 ml	COOH
ABN-CeO ₂ -5	CeO ₂ Nanoparticles 5nm-COOH	2.5 ml	COOH
ABZG-20	Silver Shelled Gold 20 nm	10 ml	PVP
ABZG-30	Silver Shelled Gold 30 nm	10 ml	PVP
ABZG-40	Silver Shelled Gold 40 nm	10 ml	PVP
ABZG-50	Silver Shelled Gold 50 nm	10 ml	PVP
ABZG-60	Silver Shelled Gold 60 nm	10 ml	PVP
ABZG-70	Silver Shelled Gold 70 nm	10 ml	PVP
ABZG-80	Silver Shelled Gold 80 nm	10 ml	PVP
ABZG-90	Silver Shelled Gold 90 nm	10 ml	PVP
ABZG-100	Silver Shelled Gold 100 nm	10 ml	PVP
ABZ-8-15	金银纳米梭子 15nm	10 ml	
ABZ-14-1	金纳米链	10 ml	
ABZ-11-50	金纳米六角板 50nm	10 ml	
ABN-11-150	金纳米六角板 150nm	10 ml	
ABZ-13-1	金属纳米颗粒无序阵列	10 ml	

2 Publications

Cat No	Product Name	Publications
ABZ-50	Gold Nanostars, 50nm	Tian Z, Haohan S, Liyun D, et al. Single-Particle Catalytic Analysis by a Photon Burst Counting Technique Combined with a Microfluidic Chip[J]. <i>Analytical chemistry</i> , 2021.
ABZ-4-50	Gold Nanoshell, 50nm	Tian Z, Haohan S, Liyun D, et al. Single-Particle Catalytic Analysis by a Photon Burst Counting Technique Combined with a Microfluidic Chip[J]. <i>Analytical chemistry</i> , 2021.

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ABZ-11-55	Gold Nanocubes, 55 nm	Tian Z, Haohan S, Liyun D, et al. Single-Particle Catalytic Analysis by a Photon Burst Counting Technique Combined with a Microfluidic Chip[J]. <i>Analytical chemistry</i> , 2021.
ABZW-1-50	Gold Nanoparticles, 50 nm	Xin Li, Fei Wang, Xue Wang, et al. Plasmonic-photonic hybrid configuration on optical fiber tip:Toward low-cost and miniaturized biosensing probe[J]. <i>Sensors & Actuators:B.Chemical</i> , 2022. ()
ABNW-9-980	Gold Nanorods, 9 nm, 980±10 nm	杨茜茹,沈朝,张春晓,张承虎.太阳能光热转化中金纳米棒流体光学特性的实验研究 [J]. 西安建筑科技大学学报 (自然科学版),2021,53(06):791-796.DOI:10.15986/j.1006-7930.2021.06.001.
ABNW-9-980	Gold Nanorods, 9 nm, 980±10 nm	杨茜茹. 基于纳米棒流体的直接吸收式太阳能集热器的性能研究[D].哈尔滨工业大学,2021.DOI:10.27061/d.cnki.ghgdu.2021.003648.
ABZW-12-60	Silver Nanoparticles, 60 nm	Wu J, Cai J, Fan Y, Zhang Y, Fang H, Yan S. Effective Enrichment of Plasmonic Hotspots for SERS by Spinning Droplets on a Slippery Concave Dome Array. <i>Biosensors (Basel)</i> . 2022
ABL-1-71	Aldehyde/Sulfate Latex Beads	周思思. 基于外泌体的肿瘤诊断与药物递送研究 [D]. 东南大学,2021.DOI:10.27014/d.cnki.gdnau.2021.000011.



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