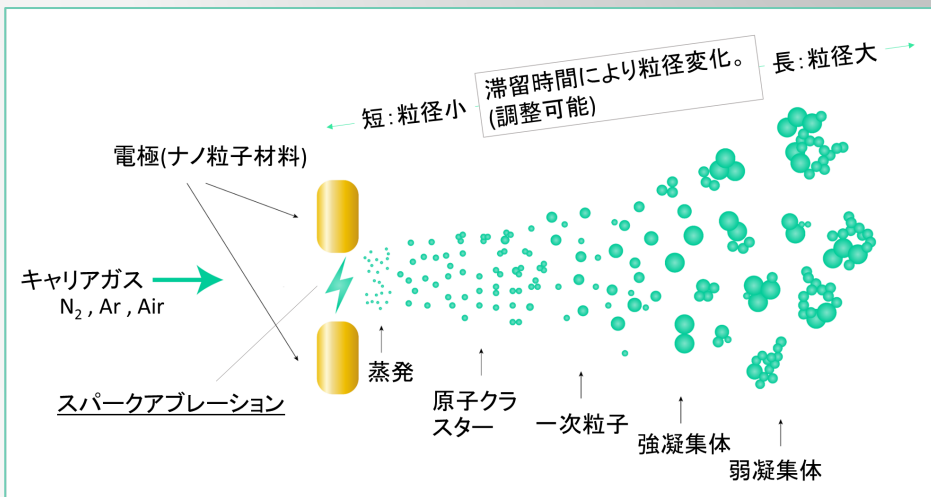


ナノ粒子ジェネレーター

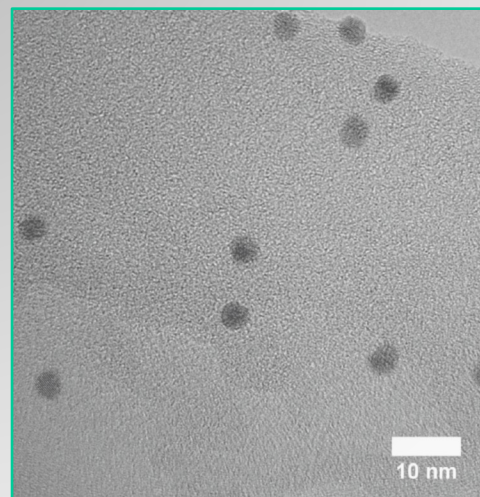
- 卓上で金属ナノ粒子を高速生成。
- 任意の材質。合金生成も可能。
- 1nm～任意サイズ
- 試験用ウエハの模擬コンタミ生成に。



VSparticle社 G-1



発生原理



描線、触媒、
成膜、多孔膜、
表面処理、
機器評価、
毒性試験 etc.

SEM画像と応用分野

静電分級器 (DMA)

分級器との組み合わせにより、任意サイズの単分散粒子発生が可能

単分散パーティクル

単分散粒子発生

1	2																																																																																		
H Hydrogen 1.01	He Helium 4																																																																																		
3	4	10										11	12	13	14	15	16	17	18	19	20																																																														
Li Lithium 6.94	Be Beryllium 9.01	B Boron 10.81	C Carbon 12.01	N Nitrogen 14.01	O Oxygen 16	F Fluorine 19	Ne Neon 20.18	Na Sodium 22.99	Mg Magnesium 24.3	Al Aluminum 26.98	Si Silicon 28.09	P Phosphorus 30.97	S Sulfur 32.06	Cl Chlorine 35.45	Ar Argon 39.95	K Potassium 39.1	Ca Calcium 40.08	Sc Scandium 44.96	Ti Titanium 47.88	V Vanadium 50.94	Cr Chromium 52	Mn Manganese 54.94	Fe Iron 55.85	Co Cobalt 58.93	Ni Nickel 58.69	Cu Copper 63.55	Zn Zinc 65.39	Ga Gallium 69.72	Ge Germanium 72.64	As Arsenic 74.92	Se Selenium 78.96	Br Bromine 79.9	Kr Krypton 83.8																																																		
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Rb Rubidium 85.47	Sr Strontium 87.62	Y Yttrium 88.91	Zr Zirconium 91.22	Nb Niobium 92.91	Mo Molybdenum 95.94	Tc Technetium 98	Ru Ruthenium 101.07	Rh Rhodium 102.91	Pd Palladium 106.42	Ag Silver 107.87	Cd Cadmium 112.41	In Indium 114.82	Sn Tin 118.71	Sb Antimony 121.76	Te Tellurium 127.6	I Iodine 126.9	Xe Xenon 131.29	Cs Cesium 132.91	Ba Barium 137.33	Lanthanoids	Hf Hafnium 178.49	Ta Tantalum 180.95	W Tungsten 183.84	Re Rhenium 186.21	Os Osmium 190.23	Ir Iridium 192.22	Pt Platinum 195.08	Au Gold 196.97	Hg Mercury 200.59	Tl Thallium 204.38	Pb Lead 207.2	Bi Bismuth 208.98	Po Polonium 209	At Astatine 210	Rn Radon 222	Fr Francium 223	Ra Radium 226	Actinoids	Rf Rutherfordium 261	Db Dubnium 262	Sg Seaborgium 263	Bh Bohrium 264	Hs Hassium 265	Mt Meitnerium 266	Ds Darmstadtium 267	Rg Roentgenium 268	Cn Copernicium 285	Nh Nihonium 286	Fl Flerovium 287	Mc Moscovium 288	Lv Livermorium 293	Ts Tennessine 294	Og Oganesson 294																														
Lanthanoids		La Lanthanum 138.91	Ce Cerium 140.12	Pr Praseodymium 140.91	Nd Neodymium 144.24	Pm Promethium 145	Sm Samarium 150.36	Eu Europium 151.96	Gd Gadolinium 157.25	Tb Terbium 158.93	Dy Dysprosium 162.5	Ho Holmium 164.93	Er Erbium 167.26	Tm Thulium 168.93	Yb Ytterbium 173.05	Lu Lutetium 174.97	Actinoids		Ac Actinium 227	Th Thorium 232.04	Pa Protactinium 231.04	U Uranium 238.03	Np Neptunium 237	Pu Plutonium 244	Am Americium 243	Cm Curium 247	Bk Berkelium 247	Cf Californium 251	Es Einsteinium 252	Fm Fermium 257	Md Mendelevium 258	No Nobelium 259	Lr Lawrencium 261																																																		

豊富な対応材質