Year	Citation	Medalist(s)
1903	Studies in Denitrification	Edward B. Voorhees
1904	No award	No award
1905	Atomic Weight of Berylium	Charles L. Parsons
1906	Researches on Quinazolines	Marston T. Bogert
1907	Estimation of Arsenic	Howard B. Bishop
1908	Corrosion of Iron and Steel	William H. Walker
1909	Atomic Weight of Chlorine	William A. Noyes
1909	Atomic Weight of Chlorine	H. C. P. Weber
1910	Synthesis, Constitution, and Industrial Application of Bakelite and Soluble and	Leo. H. Baekeland
	Fusible Resinous Condensation Products of Formaldehyde and Phenol	
1911	Partial Vapor Pressure of Binary Mixtures	M. A. Rosanof
1911	Partial Vapor Pressure of Binary Mixtures	C. W. Easley
1912	Rare Earth Compounds	Charles James
1913	No award	No award
1914	Triphenyl Methyl	Moses Gomberg
1915	Chemical Reactions at Low Pressures	Irving Langmuir, Nobel Prize 1932
1916	Acetyl Derivatives of the Sugars	Claude S. Hudson
1917		no award
1918	Researches on Pyrimidines	Treat B. Johnson
1919	No award	No award
1920	Arrangements of Electrons in Atoms and Molecules	Irving Langmuir, Nobel Prize 1932
1921	Third Law of Thermodynamics	Gilbert N. Lewis
1922	No award	no award
1923	Use of Anti-Knock Compounds in Motor Fuels	Thomas Midgely, Jr.
1924	Properties of Nonaqueous Solutions	Charles A. Kraus
1925	Alcohols, Aldehydes and Acids of the Ammonia System	E.C. Franklin
1926	Chemical Activation by Alpha Particles	Samuel C. Lind
1927	Acids of Chaulmoogra Oil and Related Compounds	Roger Adams, National Medal of Science 1964
1928	Catalysis as an Inspiration of Fundamental Research	Hugh S. Taylor
1929	Contributions to the Chemistry of Carbohydrates	William L. Evans
1930	Chemistry of Photography	Samuel E. Sheppard
1931	Colloid Chemistry as Applied to Leather and Sanitation	John A. Wilson
1932	Chemistry of Chlorophyll	James B. Conant
1933	No award	no award
1934	Chemistry of Vitamins	Henry C. Sherman

1935 1936 1937	Basic Work on Synthesis from Unsaturated Hydrocarbons Hydrogen Ion Concentration and Oxidation Reduction Equilibria Metallo-organic Compounds, Especially those of Mercury. In the Field of Aliphatic Chemistry. Particularly In Molecular Rearrangements and in the	Julius A. Nieuwland William M. Clark Frank C. Whitmore
1938 1939	Configurational Relationships of the Simpler Optically ActiveOrganic Compound Solubility of Nonelectrolytes	s P. A. Levene Joel H. Hildebrand
1940	Contributions in the Field of Enzyme Chemistry	John M.Nelson
1941	Fundamental Inquiry in the Nature of the Chemical Bond	Linus Pauling, Nobel Prize 1954 (Chemistry), Nobel Prize 1962 (Peace)
1942	Contributions to Electrochemistry	Duncan A. MacInnes
1943	Investigations in Inorganic and Physical Chemistry. Leadership in Defense	Arthur B. Lamb
1944	Against Poison Gas: and as a Teacher Administratorand Editor Organic Chemical Contributions to the Study of Polymers	Carl S. Marvel, National Medal of Science 1986
1945	Researches on the Structure of Biotin and other Contributions to Biochemistry	Vincent du Vigneaud, Nobel Prize 1955
1946	Contributions to the Chemistry of the Viruses	Wendell M. Stanley, Nobel Prize 1946
1947	Contributions in the Field of Reaction Kinetics, Spectroscopy of Polyatomic	George B. Kistiakowski
1948	Molecules and Heat Effects in Organic Reactions Co-discoverer of Pu, Am and Cm, Preeminent in the Fieldsof Nuclear Fission, Plutonium Production, and the Transuranium Elements	Glenn T. Seaborg, National Medal of Science 1991, Nobel Prize 1951
1949	World Leadership in Analytical Chemistry and Contributions to the Theories of	I. M. Kolthoff
1950	Interfacial Phenomena and Flectrode Reactions Fundamental Contributions to the Fields of Insulin Chemistry, Steroid Hormones, Antibiotics and Alkaloids, and the First Isolation in	Oskar Wintersteiner
	Crystalline Form of Penicillin-G and Streptomycin	
1951	Contributions to the Theory of Rate Processes in Chemistry, Biology, Metallurgy	Henry Eyring, National Medal of Science 1966
1952	and Physics Pioneer Work in the Chemistry and Production of Pure Rare Earth and Actinide EleFrank H. Spedding	
1953	Pioneer Work on Stable Enols, Enediols, Unusual Grignard Reactions and	Reynold C. Fuson
1954	Application of Dielectric Measurements in Elucidation of Molecular Structure	Charles P. Smyth
1955	and Properties of Liquids and Crystals Pioneer Studies on the Thermodynamics of Electrolytes, Especially the Entropies of Ions in Aqueous Solutions	Wendell M. Latimer
1956	Brilliant Original Concepts and Their Use in Elucidation of Structure and Synthesis of Complex Natural Products	Robert Burns Woodward, National Medal of Science 1964, Nobel Prize 1965

1957	Giving Impetus, Direction and Highly Original Concepts to Physical Organic Chen Louis P. Hammett		
1958	Elucidating the Mechanism of the Photosynthetic Fixation of Carbon Dioxide	Melvin Calvin, National Medal of Science 1989, Nobel Prize 1961	
1959	Important Original Contributions to Boron Chemistry, the Concept of Steric	Herbert C. Brown, National Medal of Science, Nobel Prize 1979	
1960	Strains and Aromatic Substitution Pioneer Contributions to Pure and Applied Polymer Science	Herman F. Mark, National Medal of Science 1979	
1961	Basic Contributions to Theory in the Area Where ChemistryMerges with Physics	Peter J. W. Debye, National Medal of Science 1965, Nobel Prize 1936	
1962	Creative Contributions to Theoretical and Experimental Research on the	Paul J. Flory, National Medal of Science 1974, Nobel Prize 1974	
4000	Physical Chemistry of Macromolecules	Leader Floring	
1963	Superlative Lecturer, Teacher and Writer on Organic Chemistry Pioneering Investigator of Polynuclear Compounds	Louis F. Fieser	
1964	For Unselfish Devotion to the Profession of Chemistry Particularly in the	Arthur C. Cope	
	Dissemination of Scientific Information - for Long-continued and Productive		
1965	For Long-continued and Productive Research in Organic and Biochemistry	Herbert E. Carter	
1966	Outstanding Contributions to the Area of Thermodynamics through Research	Frederick D. Rossini, National Medal of Science 1976	
1967	Writing Organization For His Achievements in Chemistry Particularly in Vitamins and Antibiotics of	Karl Folkers, National Medal of Science 1990	
1307	Significance in Medicine	Ratti dikers, National redator science 1990	
1968	Total Synthesis of Triterpenoids and Steroids: Stereospecific Cyclization Reaction	William S. Johnson, National Medal of Science 1987	
1969	For His Studies on Protein Synthesis in Cell Free Systems Which Have Resulted	Marshall Nirenberg, Nobel Prize 1968 (Physiology & Medicine)	
1070	in Deciphering the Genetic Code	Dritton Change National Madel of Cajanas 1074	
1970	For Imaginative Application of Physical Methods of Elucidation of the Chemical Mechanism of Action of Enzyme Systems Which Provide Living Organisms with	Britton Chance, National Medal of Science 1974	
	the Erec Energy Dequired for Life and Crouth		
1971	For Outstanding Creative Contribution in the Discipline of Inorganic Chemistry	Henry Taube, National Medal of Science 1976, Nobel Prize 1983	
1972	Fsnecially Kinetics and the Mechanism of Reactions For Pioneering Studies of Organic Reaction Mechanism and Applications of	John D. Roberts, National Medal of Science 1990	
1973	Nuclear Magnetic Resonance and Molecular Orbital Theory in Organic For Development of the Solid Phase Method of Synthesis of Peptides and	R. Bruce Merrifield, Nobel Prize 1984	
1973	Proteins and the Stimulation This Method Gave to the Study of Polynentides	n. Bluce Mellinetu, Nobel Flize 1964	
1974	For Original Theoretical and Experimental Investigations of Protein Structures	Harold A. Scheraga	
1975	and Interactions Including the Role of Solventsin Protein Conformations For His Contributions in the Field of Inorganic Chemistry Which Have Been	F. Albert Cotton, National Medal of Science 1982	
	Characterized by Insight Imagination and Extraordinary Breadth. In Particular for		
1076	Racic and Original Work on Metal Carbonul Metal Atom Cluster and Eluvional		
1976 1977	For Outstanding Contributions to the Development of PhysicalOrganic Chemistry Paul D. Bartlett, National Medal of Science 1968 For Contributions to Organic Chemistry. In Particularin the Technology Art and Elias J. Corey, National Medal of Science 1988, Nobel Prize 1990		
10//	Logic of Organic Synthesis	Educini Coloy, National Flouritor Colonice 1000, Nobel 1126 1000	

1978	For Research into the Structure of High Polymers and Insights into the	Frank Alden Bovey, II
1979	Relationship between Structures and Properties For Unlocking the Chemical Secrets of the Hormones of the Anterior Pituitary	Choh Hao Li
1980	Gland Particularly ACTH HGH I PH and heta Endornhin For Outstanding Contributions to the Methodology and Art of Synthetic Organic Chemistry and for Landmarks in Natural Product Synthesis	Gilbert Stork, National Medal of Science 1982
1981	For His Outstanding Contributions in Orbital Symmetry and Electronic Structure of Transition States and Intermediates	Roald Hoffmann, National Medal of Science 1983, Nobel Prize 1981
1982	For Outstanding Contributions Both to Physical-organic and to Bio-organic Chemistry Which Have Clarified Rationalized and Illuminated These Fields	Frank H. Westheimer, National Medal of Science 1986
1983	For His Synthetic Work Including the First Compound of a Noble Gas	Neil Bartlett
1984	For His Outstanding Contributions to Mass Spectrometry and Computer-	Fred W. McLafferty
1985	Assisted Techniques in Analytical Chemistry For His Penetrating Insights into the Mechanisms of Organic Reactions	Jerome A. Berson
1986	For His Outstanding Contributions in the Field of Theoretical Organic Chemistry	Michael J. S. Dewar
1987	For Pioneering Contributions to the Theory and Practice of Stereochemistry	Kurt Mislow
1988	For His Outstanding Contributions in the Field of Medicinal Chemistry	Ralph F. Hirschmann, National Medal of Science 2000
1989	For His Contributions to a Unique Combination of Physical Organic Bioorganic and Biomimetic Chemistry	Ronald Breslow, National Medal of Science 1991
1990	For Outstanding Contributions in the Field of Chemical Physics as Applied to	John D. Baldeschwieler, National Medal of Science 2000
1991	Structures and Reactions of Practical Importance For Profound Theoretical Insights and Outstanding Innovations in Separation Scie	e I. Calvin Giddings
1992	For His Exceptional Structural Studies of Bioactive Molecules Using Novel and	Koji Nakanishi
	Ingenious Microscale Methods	
1993	For Development of Cluster Chemistry; Notably Buckminsterfullerene	Richard E. Smalley, Nobel Prize 1996
1994	For Contributions to Bioorganic Chemistry: In Particular in the Methods and	Peter B. Dervan, National Medal of Science 2006
1995	Chemical Principles for Recognition of Nucleic Acids by Synthetic Molecules For Creative Contributions in Bioinorganic and Organometallic Chemistry	Stephen J. Lippard, National Medal of Science 2004
	Characterized by Extraordinary Breadth and Depth That Have Characterized by	
1996	For Creative Work in the Art and Science of Chemical Synthesis and Molecular D	K. C. Nicolaou
1997	, , , , , , , , , , , , , , , , , , , ,	Jacqueline K. Barton, National Medal of Science 2010
1998	of Transition Metal Complexes to Probe DNA Recognitionand Reactions For Pioneering the Development of the Field of Femtochemistry	Ahmed H. Zewail, Nobel Prize 1999
1000	To Froncesting the Development of the Frieth of Fermiotine mistry	7 miliod 11. Zowalt, Nobel 11120 1000
1999	For his contributions to bioorganic chemistry: in particular for creative	Samuel J. Danishefsky

2000	contributions at the interface of organic synthesis and biology		
2000 2001	For Outstanding Contributions in the Use of Novel Methodologies for Synthetic C For Outstanding Contributions to Understanding Signal Transduction Pathways	Stuart L. Schreiber	
	hv Merging Synthetic Organic Chemistry and Molecular Cell Riology Annroaches		
2002	For Outstanding Contributions to the Field of Conducting Polymers	Alan G. MacDiarmid, Nobel Prize 2000	
2003	For The Currents of Life: Electron Flow Through Iron and Copper Proteins	Harry Gray, National Medal of Science 1986	
2004	For the Invention and Development of the Scanning Electrochemical Microscope (SECM) which has Allowed High Resolution Chemical Imaging of Surfaces and Reactions on the Nanometer Scale	Allen J. Bard, National Medal of Science 2011	
2005	For Pioneering Studies of Chemical Reactions on the Molecular Level	Richard N. Zare, National Medal of Science 1983	
2006	For Click Chemistry, A New Strategy for Chemical Discovery	K. Barry Sharpless, Nobel Prize 2001 (Chemistry), Nobel Prize 2022	
2007	For Pioneering Research on the Photochemistry of Organic Molecules and Supramolecular Systems	(Chemistry) Nicholas J. Turro	
2008	For Founding and Establishing the Field of Structural DNA Nanotechnology	Nadrian C. Seeman	
2009	For New Methods at the Interface of Chemistry and Biology	Carolyn R. Bertozzi, Nobel Prize 2022	
2010	Pioneering Research in Catalysis and Soft Matter Electronics	Tobin J. Marks, National Medal of Science 2005	
2011	Advances in the Science of Molecular Recognition and Encapsulation	Julius Rebek, Jr.	
2012	Advances in Fourier Transform Ion Cyclotron Resonance Mass Spectrometry	Alan G. Marshall	
2013	Contributions to Inorganic Photochemistry	Richard Eisenberg	
2014	For outstanding Contributions to Synthetic Organic Chemistry	Amos B. Smith, III	
2015	For outstanding Contributions to the Elucidation of Novel Highly Selective Nanoc	C Gabor A. Somorjai, National Medal of Science 2001	
2016	For Landmark Contributions to Organometallic Chemistry, Ligand Design and Ca	Stephen L. Buchwald	
2017	For Pioneering Practical Applications of Nanochemistry	Chad A. Mirkin	
2018	For Pioneering 3D Nanoarchitectures for Energy-relevant Materials	Debra R. Rolison	
2019	For Contributions to Interfacial Environmental Chemistry	Vicki H. Grassian	
2020	For the development of Atom Transfer Radical Polymerization	Krzysztof Matyjaszewski	
2021	No Award	No Award	
2022	For pioneering contributions to marine bioinorganic chemistry	Alison Butler	
2023	For pioneering work in organometallic reaction mechanisms	Karen I. Goldberg	
2024	For groundbreaking quantum insights in sustainable catalysis	Emily A. Carter	