List of symbols

$\mathbb{N}$	the set $\{1, 2, \ldots\}$ of all natural numbers
$\mathbb{N}_0$	the set $\{0, 1, 2, \ldots\}$ of all non-negative integers
$\mathbb{Z}$	the set of all integers
$\mathbb{Q}$	the set of all rationals
$\mathbb{R}$	the set of all reals
$\mathbb{C}$	the set of all complex numbers
B_X	the unit ball of a normed space X, $B_X = \{x \in X \colon \|x\| \leq 1\}$
S_X	the unit sphere of a normed space X, $S_X = \{x \in X \colon \|x\| = 1\}$
X^*	the dual of a normed space X
$\lvert A\rvert$	the cardinality of a set A
$\mathbb{1}_A$	the characteristic function of a set A
I_X	the identity operator acting on a Banach space X
ω	the first infinite ordinal number
$[n]$	the set $\{1, 2, \ldots, n\}$
$\mathcal{P}\Gamma$	the family of all subsets of a given set Γ
$\mathcal{P}_\infty\Gamma$	the family of all infinite subsets of a given set Γ
$\mathcal{F}_n\Gamma$	the family of all n-element subsets of Γ
$\mathcal{F}\Gamma$	the family of all finite subsets of Γ
$\Pi(\Gamma)$	the family of all partitions of Γ
$\overline{A}$	the closure of A in the norm topology
$\overline{A}^w$	the closure of A in the weak topology
$\overline{A}^{w*}$	the closure of A in the weak* topology
$\mathrm{span}(A)$	the linear space generated by a set A
$\overline{\mathrm{span}}(A)$	the norm closure of $\mathrm{span}(A)$
$\overline{\mathrm{span}}^{w*}(A)$	the closure of $\mathrm{span}(A)$ in the weak* topology
$\mathrm{conv}(A)$	the convex hull of a set A
$\overline{\mathrm{conv}}(A)$	the norm closure of $\mathrm{conv}(A)$
$\mathrm{dist}(x, A)$	the distance between a point x and a set A
e_n	the nth canonical unit vector in a sequence space (unless otherwise stated)
e_n^*	the nth coordinate functional on a sequence space (unless otherwise stated)
$X \oplus Y$	the direct sum of Banach spaces X and Y, equipped with any norm which is equivalent to $\|(x, y)\|_\infty := \max\{\|x\|, \|y\|\}$
$c_0(\Gamma)$	the Banach space of all scalar functions x defined on Γ such that for every $\varepsilon > 0$ there is a finite set $F \subset \Gamma$ with $\lvert x(\gamma)\rvert < \varepsilon$ for each $\gamma \in \Gamma \setminus F$, equipped with the supremum norm
$\ell_p(\Gamma)$	for $p \in [1, \infty)$, the Banach space of all scalar functions x defined on Γ such that $\|x\|_p := \big(\sum_{\gamma\in\Gamma} \lvert x(\gamma)\rvert^p\big)^{1/p} < \infty$, equipped with the norm $\|\cdot\|_p$
$\ell_\infty(\Gamma)$	the Banach space of all scalar bounded functions defined on Γ, equipped with the supremum norm $\|x\|_\infty := \sup\{\lvert x(\gamma)\rvert \colon \gamma \in \Gamma\}$

operator	= bounded and linear operator (unless otherwise stated)
isomorphism	= bounded, linear and bijective operator between Banach spaces
functional	= continuous, linear functional (unless otherwise stated)
isometry	= linear isometry (unless otherwise stated)
embedding	= bounded, injective, linear operator with a closed range
subspace	= closed, linear subspace (unless we talk about a dense subspace)